

Introduction

Bishop Alexander Carter Catholic Secondary School

Mission Statement

Christ-Centered and Student-Focused Learning

We strive to provide equal opportunities for all students. Through the provision of programs, personnel, facilities, finances and administrative services, the school has the overall purpose of helping individual learners achieve their potential in spiritual, intellectual, cultural, social and physical development.

Catholic education is best understood in terms of the learner as an irreplaceable and unique human person called into existence by a loving God and launched on a journey back to the creator. Catholic education is a shared responsibility. Parents are the primary educators of their children. Working in close collaboration with parents are trustees, teachers, support personnel and priests, all in the service of the students for whom the school exists. We believe that every baptized person has a right to a Christian education in an atmosphere where the Gospel values of Jesus Christ are lived and taught. All employees share the responsibility of building such a condition in our school.

Bishop Alexander Carter Catholic Secondary School Prayer

Lord,

We are ever thankful for the abundant blessings that you have poured forth on Bishop Alexander Carter Catholic Secondary School. What was once a prayer is now becoming a reality. From this day forth, we seek to do your will and ask that you continue to protect us with your strength. Holy Spirit, bestow your gifts on our school board, staff, parents, students and everyone in our community. May this school be a shining light in our world and may it be a place where all are welcome. This we ask in the name of Jesus, who reigns with you now and forever,

Amen

Message From the Principal

I am very pleased to welcome you to the "Home of the Gators"!!

You have made a wise choice in selecting Bishop Alexander Carter Catholic Secondary School. We are a vibrant school where academic success, personal growth and Catholic values top the list of our priorities. The staff at Bishop Alexander Carter is very committed, working hard on behalf of your son/daughter, to ensure they receive curriculum which is challenging, relevant, rewarding, as well as enriched with deep faith connections that make up our Catholic faith experience.

This handbook contains very useful information about Bishop Alexander Carter Catholic Secondary School and the programs and courses available for student selection. Parents and students are encouraged to read through this document carefully.

Student and parental involvement is strongly encouraged and critical to our continued success as a school community. We invite all to enjoy the opportunities that are available at Bishop Alexander Carter Catholic Secondary School.

On behalf of the entire staff at Bishop Alexander Carter Catholic Secondary School we wish all students a very successful school year and we look forward to the opportunity to meet you and work with your son/daughter. We are definitely a Catholic School To Believe In.

Sincerely,
Mr. D. Soehner
Principal

Ministry of Education Vision Statement

- The Ministry of Education's vision is to offer Ontario students the best education in Canada. Ontario's public education system will strive for excellence in the following ways:
- Students will have access to top quality education, characterized by high standards, clearly stated expectations and frequent, straightforward evaluation;
- Students will have the right to learn in a safe and respectful environment;
- The school system will prepare students for higher education, for entering the workforce and for assuming the responsibilities of citizenship;
- Teachers will have full opportunities to be the best qualified and the most highly skilled in Canada; and
- Parents will have a strong voice in the education of their children.

Sudbury Catholic District School Board Vision Statement

CREATING

The choice of the word "creating" is significant to our fundamental beliefs as a Catholic community. Genesis 1.1 reads "In the beginning, God created the heavens and the earth," and in Genesis 1.27, "God created man in his image; in the divine image he created him; male and female He created them". The inclusion of the word "creating" is a reflection that everything comes from God, and that in His great love man and woman were created. "Creating" connects us to our roots; in the same way God created life, we are creating hopes and dreams for our staff and students.

HOPES AND DREAMS

Every individual has established their unique set of hopes and dreams. It is these individual hopes and dreams that make us different; but we are all connected because we all possess these aspirations. Hope is one of the three theological virtues and it allows us to believe in the promised blessings of God. Hope sustains us through the trials that arise in our lives. It is the vision of the

Sudbury Catholic District School Board that individuals involved in Catholic Education will feel a sense of hope in their lives and will be inspired to live a life of faith. Our dreams define us as individuals and allow us to strive to be better people. We are encouraged by God to follow our dreams, because in pursuing these aspirations we use our gifts to bring hope and beauty into the world. At the Sudbury Catholic District School Board we create dreams for every individual and strive to nurture these dreams.

EXCELLENCE

Every individual is capable of achieving excellence. Excellence is the act of emanating virtuous qualities and performing positive actions at every possible opportunity. Every individual has their own definition of excellence, whether it applies to academics, athletics, or character. We have achieved excellence when we live up to personal standards and are satisfied with the purity and goodness of our actions.

Programs

The Grade 9 Program

The Grade 9 program at Bishop Alexander Carter Catholic Secondary School has been specially designed to make the move from Grade 8 to 9 a successful experience for all students. Students may be organized into classes which stay together as a group for most of the school day, giving them the opportunity to meet new friends in a supportive environment.

Students who have followed a French Immersion program in elementary school will be able to continue in this program at Bishop Alexander Carter Catholic Secondary School by choosing the Immersion option. A certificate in French Immersion is granted to students who have successfully completed four courses in French Immersion and a minimum of six courses in other subjects taught in French.

The core program provides a solid foundation in each subject area. In addition, the skills that have proven to be essential to student success will be integrated into all subject areas. Those skills include: work and study skills, problem solving skills, organizational skills and other essential skills.

Students with special needs will be integrated into Grade 9 classes whenever possible. Resource support and peer tutoring may be available to meet the individual student's needs.

The Grade 9 guidance program is a continuation of the Transition Years Guidance Program introduced in Grades 7 and 8. The emphasis on orientation, relationships, study skills, career planning and education planning will be extended in Grade 9.

After ongoing consultation between home and school, at the start of the second semester, Grade 9 students will select Grade 10 credit courses (Academic, Applied or Locally Developed) best suited to their abilities, work habits and future plans.

Grade 9 Package Program

All students will take the Grade 9 program, which consists of the required subjects and 1 of the exploratory subjects. Students will select courses at the Academic, Applied, Locally Developed pathway, or Skills for Success and Workplace Pathways program.

Required Subjects	Options
Religious Education	Art
English	Music
French	Drama
Mathematics	Exploring Technologies
Science	Native Languages
Geography	Learning Strategies
Healthy Active Living	

Students will be required to complete 30 credits of 110 hours each to obtain a high school diploma. Eighteen of these credits will be compulsory. The remaining 12 credits will be optional, allowing students to pursue individual interests and meet university, college, and apprenticeship or work requirements. Compulsory credits include:

- 4 English - one per grade**
- 1 French as a Second Language**
- 3 Mathematics - at least one in Grade 11 or 12**
- 2 Science**
- 1 Canadian History**
- 1 Canadian Geography**
- 1 Arts**
- 1 Physical Education & Health**
- 1 Civics and Career Studies**

1 additional credit in English, or French as a second language, or Native Language, or a classical or an international language, or social sciences and the humanities, or Canadian and world studies

1 additional credit in health and physical education, or the arts, or business studies, or cooperative education

1 additional credit in science, or technological education, or cooperative education

The compulsory courses selected reflect discussions held with representatives of parents, teachers, students and business. They will ensure that students have a solid grounding in core subjects such as Language, Mathematics and Science, as well as knowledge in other subject areas that would provide them with a well rounded high school education.

The extra requirements of Catholic schools were taken into consideration when the number of compulsory credits was established. Students in Catholic schools will be able to complete curriculum requirements along with the special religion credits required.

In Grade 9 and 10, core courses will be available at an **academic pathway** with a focus on theory or **applied pathway** or **locally developed pathways** with an emphasis on applications. Students in Grade 9 will not be locked into a pathway. They will be able to crossover to the pathway in Grade 10 if they choose.

In Grades 11 and 12, courses will be available according to the student's chosen destination, whether university, college, or apprenticeship and work. Joint courses may also be offered. Other directions for the high school program based on high standards and accountability include:

- A requirement for students to complete 40 hours of community involvement prior to graduation;
- introduction of a high school literacy test prior to the end of Grade 10 - this provides time for re-dedication and further testing or alternative courses, for students who do not meet the required standard;
- the establishment of a provincial partnership council to help expand cooperative education, apprenticeship, work experience, school-to-work and community involvement programs and increase private sector participation in them

Guidance Program

Our complex social order has focused the attention of educators on the need for effective guidance programs in schools. Factors such as rapid technological, economical, and social changes underline the need for a balanced guidance program that will respond to the ever changing personal, social, educational, and career needs of all students.

The Guidance Program at Bishop Alexander Carter CSS focuses on students orientation, education, and career planning, linkages with post-secondary institutions such as universities and community colleges, the monitoring of student progress, and the development of special programs such as peer tutoring and remediation programs for at-risk students. Large and small group sessions in guidance related topics are integrated into the total school program. Individual counselling is available to students and parents who may have concerns about social, emotional, and educational development. Referrals to school resource personnel and community and social services are facilitated by the guidance counsellor.

The Academic Services Department personnel help students plan ahead by providing:

- individual counselling about courses, careers and personal matters
- interest and aptitude tests to assist students to discover their interests
- printed information, including Guidance news about colleges, universities, and apprenticeship opportunities
- computer services to assist students learn about careers
- information about scholarships and financial aid for further education
- help in finding jobs
- referrals to School Board and community agencies for help with individual problems

Although Guidance counsellors attempt to contact students every year with regard to future plans students should request an interview at a time best for themselves rather than waiting to be contacted.

The Academic Services Department offers:

Individual Counselling about courses, careers matters	Interest Inventories	Computer information about jobs, careers personal and post-secondary opportunities
Printed information about jobs, colleges, universities, other educational opportunities	Guidance Programs	Scholarship and Financial Aid
Group sessions on job search techniques, post-secondary planning, how to study, special needs groups and other	Records of courses taken and total credits toward graduation	Registration for the following year, or college, or university

Course Changes:

A transfer from one course to another may be made up to two weeks into a semester. Any transfer is dependent upon class size and compatibility with a student's timetable. The recommendation of a counsellor and the teacher, as well as parental consent, are required for all course transfers.

Course Selection & Program Planning:

All students are strongly encouraged to seek the assistance of their present teachers, a counsellor, and parents when choosing courses and pathways. Student's academic abilities, career, goals, and personal interests should be considered when selecting courses. Please be sure to choose pathways that are challenging and in which success can be achieved. Students who are uncertain about their future plans are advised to keep open as many subject areas as possible by choosing courses that will give them a background common to several career choices. Several resources pertaining to the admission requirements for entry into post-secondary programs are available in Students Services. Counsellors are trained to help students check these requirements, and to assist in the planning of an individual program.

The final responsibility for course selection rests with the student and his/her parents. **It is extremely important that course selection for all students be as accurate as possible, since often, course changes cannot be made due to timetable conflicts or class sizes.** Note that certain courses may not be offered due to insufficient demand, and that some programs have limited enrolment.

Students who attend Summer School and successfully complete their course(s) will be permitted to modify their requests. The students have the responsibility to contact the school during the last weeks preceding the opening of school in September or the first week of school to have any course changes effected.

All changes must be made no later than ten teaching days after the beginning of the semester.

Other Information

Ontario Student Record (O.S.R.) and Ontario Student Transcript (O.S.T.)

a) Ontario Student Record: The Ontario Student Records (OSR) is the record of a student's educational progress through schools in Ontario. The Education Act requires that the principal of a school collect information "for inclusion in a record in respect of each pupil enrolled in the school and to establish, maintain, retain, transfer and dispose of the record". The act also regulates access to an OSR and states that the OSR is "privileged for the information and use of supervisory officers and the principal and teachers of the school for the improvement of instruction of the student". Each student and the parent(s) of a student who is not an adult (that is, a student who is under the age of eighteen) must be made aware of the purpose and content of, and have access to, all of the information contained in the OSR.

b) The Ontario Student Transcript (OST) The Ontario Student Transcript (OST) provides a comprehensive record of a student's overall achievement in high school. The transcript, which is part of the Ontario Student Record (OSR), will include the following information:

- the student's achievement in Grade 9 and 10, with percentage grades earned and credits gained for successfully completed credit courses.
- a list of all Grade 11 and 12 courses taken or attempted by the student, with the percentage grades earned and the credits gained (students repeating a course for which they have already earned a credit will earn only one credit for the completion of that course).
- identification of any course that had been substituted for one that is a diploma requirement.
- confirmation that the student has completed the community involvement requirement.
- the student's results on the provincial secondary school literacy test.
- an indication of any extraordinary circumstances affecting the student's achievement in a Grade 11 or 12 course.

Library

The students and staff of Bishop Alexander Carter CSS have a library available to support their work. The library is open from 8:00 a.m. to 3:00 p.m. Books are available to borrowers. Our library also has state of the art computers with full access to the Internet that our students can utilize.

Registration

Grade 8 registration and selection of courses for Grade 9 takes place in the elementary schools during the month of January. Course selection for all other grades takes place in February. The school's master timetable will be created based on these course selections.

It is imperative that students consider their initial course selections with great care. Changes requested by students or their parents after the initial registration are subject to master timetable restrictions and may not be guaranteed.

Admissions and Transfers

a) Admissions: Students who transfer from an Ontario school to Bishop Alexander Carter CSS must have their credits transferred and accepted. Students from outside Ontario shall have their credits assessed by the Principal.

b) Transfers: Should a student wish to withdraw from the school year, he/she must arrange this through the guidance department, where he/she will be informed of the proper procedure.

Examination

Exams occur within the last week of January of semester 1 and within the month of June for semester 2. Students are requested to attend all their exams. If a student is sick for the exam parents are asked to please notify the school as soon as possible. Students are permitted to

leave once they have completed their exam. Regular school bus service will be provided during exams so if students do remain at school they will need to wait in the cafeteria or study hall.

Report Cards

A report on the evaluation of each student's progress will be sent to him/her and to his/her parents after the final examinations. As well, midterm reports will be issued in the Fall and in the Spring. Students are encouraged to talk to their parents, teachers, and guidance counsellor about these reports. Students are required to complete a Report Card Response form upon receipt of each mid term report card. The Report Card Response, once completed and signed by parents, will be stored in the student's OSR folder.

Student Responsibilities

Bishop Alexander Carter Catholic Secondary School is a school which concerns itself with the spiritual and moral development of its students, as well as with their academic and physical growth. We challenge our students to integrate traditional Catholic values into their lives and to establish a commitment to the ideals of Christ's teachings.

In order to foster growth, a guideline of student responsibilities has been developed. This guideline reflects a philosophy of mutual respect, and clearly outlines students' rights and responsibilities. It is a positive document designed to build sound character.

The Code of Student Responsibilities is found in our School Agenda Book.

The Goal

In order to earn your Ontario Secondary School Diploma (OSSD), you must obtain a minimum of 30 credits (including 18 compulsory credits), pass the provincial Ontario Secondary Literacy requirements and complete 40 hours of community involvement activities.

Grades 9 and 10

In Grade 9 and Grade 10, there are four types of courses: academic(D), applied(P), locally developed (L) and open(O). The courses differ in the balance between essential concepts and additional material, and in the balance between theory and application.

Many courses in grades 11 and 12 require prerequisite courses that you must earn in the junior grades. Generally, Grade 11 university courses (U) have Grade 10 academic courses (D) as their prerequisites. Grade 11 college courses (C) have Grade 10 applied courses (P) as their prerequisites. Both the School Calendar and the Ministry web site <http://www.edu.gov.on.ca/> have subject flowcharts (adobe acrobat file) that will help you to sort out the prerequisite requirements.

If you successfully complete an applied course in Grade 9 and decide that you would like to take the subject as an academic course in Grade 10, you can take a crossover course during the summer between Grade 9 and Grade 10. The crossover courses are designed to bridge the gaps between the academic and the applied level courses. Non-credit crossover courses are available in English, French, mathematics, and science.

Grades 11 and 12

In Grade 11 and Grade 12, there are five types of courses based on your destination after high school: university(U), college(C), university or college(M), open(O), and the workplace(E). You can transfer from one type of course to another in the summer between Grade 11 and Grade 12 by taking transfer courses (a quarter or half credit). It becomes progressively more difficult to switch destination paths as you progress through your years at high school.

How Can I Get Help With My School Plan?

You should try to plan the courses that you might take during your four years at high school. Each year, you should review and if necessary modify **your plan** to ensure that it meets the **requirements for graduation** and provides you with the prerequisite courses for your destination after high school. **Consult the Career Cruising website, made available through the Catholic District School Board, to assist with school and career planning. Registrations will take place on-line, during the month of February, through the Career Cruising website. The Grade 10 careers course will help you explore possible careers.**

The Guidance Department will provide you with information on **apprenticeships, colleges, employment** and the **prerequisite courses needed for university** to permit you to:

1. Set your goals for the year and develop a plan of action to reach your goals.
2. Review your progress and revise your plan.
3. Prepare for next year.
4. Do a year-end review.

If you have been identified as a **Special Education** student, you will have accommodations provided according to your individual education plan (IEP) to meet the needs of your exceptionality.

A Special Word on Mathematics.

Many university and college programs require specific math requirements. Therefore, depending on your destination and course, you will need to choose your mathematics courses very carefully. **Four types of courses are offered in the senior mathematics program: university preparation, university/college preparation, college preparation, and workplace preparation.**

The Grade 11 university preparation course, Functions, MCR 3U builds on the concepts and skills developed in the Grade 9 and 10 academic mathematics courses. The course is designed to prepare students for Grade 12 mathematics courses that lead to one of many university programs, including science, engineering, social sciences, liberal arts, and education. The Grade 11 university/college preparation course, Functions and Applications, MCF 3M provides preparation for students who plan to pursue technology-related programs in college, while also leaving the option open for some students to pursue postsecondary programs that require the Grade 12 university preparation course Mathematics of Data Management. The Grade 12 university preparation course Advanced Functions, MHF 4U satisfies the mathematical prerequisite for some universities in areas that include business, social science, and health science programs.

The Grade 12 university preparation course Calculus and Vectors, MCV 4U is designed to prepare students for university programs, such as science, engineering, and economics, that include a calculus or linear algebra course in the first year. The Grade 12 university preparation course Mathematics of Data Management, MDM 4U is designed to satisfy the prerequisites for a number of university programs that may include statistics courses, such as those found in the social sciences and the humanities.

The Grade 11 college preparation course, Foundations for College Mathematics, MBF 3C includes a blend of topics needed by students who plan to pursue one of a broad range of college programs. The Grade 12 college preparation course Mathematics for College Technology, MCT 4C provides excellent preparation for success in technology-related programs at the college level. The Grade 12 college preparation course Foundations for College Mathematics, MAP 4C satisfies the mathematical prerequisites for many college programs, including programs in business, human services, hospitality and tourism, and some of the health sciences.

The Grade 11 workplace preparation course, Mathematics for Work and Everyday Life, MEL 3E is designed to help students consolidate the basic knowledge and skills of mathematics used in the workplace and in everyday life. The Grade 12 workplace preparation course, Mathematics for Work and Everyday Life, MEL 4E extends the knowledge and skills developed in Grade 11.

Arts

Arts - Drama

Dramatic Arts, Grade 9, Open

ADA100

This course emphasizes the active exploration of dramatic forms and techniques, using material from a wide range of authors, genres, and cultures. Students will construct, discuss, perform, and analyze drama, and then reflect on the experiences to develop an understanding of themselves, the art form, and the world around them.

CREDIT: 1

TYPE: Open

GRADE: 9

Dramatic Arts

ADA200

This course requires students to actively explore dramatic forms and techniques, using their own ideas and concerns as well as sources selected from a wide range of authors, genres, and cultures. Student learning will include identifying and using the principles of space, time, voice, and movement in creating, sustaining, and communicating authentic roles within a drama. Students will assume responsibility for decisions made in the creation and presentation of the drama, and will analyze and reflect on the experience.

CREDIT: 1

TYPE: Open

GRADE: 10

Dramatic Arts, Grade 11, Open

ADA300

This course requires students to create and to present dramatic works. Students will do research on and study such types of contemporary theatre as docudrama and forum theatre. They will interpret and present works in a variety of dramatic forms; create and script original works; analyze and reflect on dramatic works; and develop their communication skills and other skills useful in a variety of careers.

CREDIT: 1

TYPE: Open

GRADE: 11

PRE-REQUISITE: ADA200 - Dramatic Arts; ADA100 - Dramatic Arts, Grade 9, Open

Dramatic Arts, Grade 11, University/College

ADA3M0

This course requires students to create and to perform dramatic presentations. Students will analyze, interpret, and perform works of drama from various cultures, including Western plays from around 1900. Students will also do research on different acting styles and conventions for their presentations, create original works, and analyze the functions of playwright, director, actor, producer, designer, technician, and audience.

CREDIT: 1

TYPE: College/University

GRADE: 11

PRE-REQUISITE: ADA200 - Dramatic Arts; ADA100 - Dramatic Arts, Grade 9, Open

Dramatic Arts, Grade 12 University/College

ADA4M0

This course requires students to experiment with forms and conventions in dramatic literature, and to create/adapt and present dramatic works. Students will do research on dramatic forms, conventions, themes, and theories of acting and directing from different historical periods, and apply their knowledge of these in analyzing and interpreting dramatic literature, including Canadian works and works from various cultures in the late twentieth century. Students will also examine the significance of dramatic arts in various cultures.

CREDIT: 1

TYPE: College/University

GRADE: 12

PRE-REQUISITE: ADA3M0 - Dramatic Arts, Grade 11, University/College

Arts - Music

Music - Instrumental**AMU100**

This course emphasizes the performance of music at a level that strikes a balance between challenge and skill and is aimed at developing technique, sensitivity, and imagination. Students will participate in creative activities that teach them to listen with understanding. They will also learn correct musical terminology and its appropriate use.

CREDIT: 1**TYPE: Open****GRADE: 9**

Music**AMU200**

This course emphasizes performance of music at an intermediate level that strikes a balance between challenge and skill. Student learning will include participating in creative activities and listening perceptively. Students will also be required to develop a thorough understanding of the language of music, including the elements, terminology, and history.

CREDIT: 1**TYPE: Open****GRADE: 10**

Music (Instrumental) Grade 11, University/ College Preparation**AMU3M0**

This course emphasizes the appreciation, analysis, and performance of various kinds of music, including baroque and classical music, popular music, and Canadian and non-Western music. Students will perform technical exercises and appropriate repertoire, complete detailed creative activities, and analyze and evaluate live and recorded performances. They will continue to increase their understanding of the elements of music while developing their technical and imaginative abilities.

CREDIT: 1**TYPE: College/University****GRADE: 11****PRE-REQUISITE: AMU100 - Music - Instrumental; AMU200 - Music**

Music**AMU300**

This course develops students' artistic knowledge and skills through the performance of music and the preparation of music productions. Students will perform appropriate works, particularly works in contemporary popular styles. Independently and in groups, they will also plan, market, and produce music productions, making use of appropriate technology, and will evaluate the results.

CREDIT: 1**TYPE: Academic****GRADE: 11****PRE-REQUISITE: AMU100 - Music - Instrumental; AMU200 - Music**

Music (Instrumental), Grade 12, University / College**AMU4M0**

This course emphasizes the appreciation, analysis, and performance of music from the romantic period and the twentieth century, including art music, jazz, popular music, and Canadian and non-Western music. Students will concentrate on developing interpretive skills and the ability to work independently. They will also complete complex creative projects.

CREDIT: 1**TYPE: College/University****GRADE: 12****PRE-REQUISITE: AMU3M0 - Music (Instrumental) Grade 11, University/ College Preparation**

Arts - Visual Arts

Visual Arts**AVI100**

This course offers an overview of visual arts as a foundation for further study. Students will become familiar with the elements and principles of design and the expressive qualities of various materials through working with a range of materials, processes, techniques, and styles. They will learn and use methods of analysis and criticism and will study the characteristics of particular historical art periods and a selection of Canadian art and the art of other cultures.

CREDIT: 1

TYPE: Open

GRADE: 9

Visual Arts (Skills for Success)

AVI104

This course offers an overview of visual arts as a foundation for further study. Students will become familiar with the elements and principles of design and the expressive qualities of various materials through working with a range of materials, processes, techniques, and styles. They will learn and use methods of analysis and criticism and will study the characteristics of particular historical art periods and a selection of Canadian art and the art of other cultures.

COURSE NOTE: This course is to be selected by Skills for Success students.

CREDIT: 1

TYPE: Open

GRADE: 9

Visual Arts

AVI200

This course emphasizes learning through practice; building on what students know; and introducing them to new ideas, materials, and processes for artistic thinking and experimentation. Student learning will include the refined application of the elements and principles of design, incorporating the creative and design processes, and the relationship between form and content. Students will also learn about the connections between works of art and their historical contexts. Course objectives may be achieved either through a comprehensive program or through a program focused on a particular art form (e.g., drawing, painting).

CREDIT: 1

TYPE: Open

GRADE: 10

Media Arts (SHSM)

ASM300

This course emphasizes the development of the knowledge and skills required for the production of media art works (e.g., rob sculpture, photocopy art, computer animation with synthesized sound). Students will develop an appreciation of the history of media arts through analyzing specific works, and will create media art works using a variety of technologies (e.g., digital camera, photo-imaging software, computer-modeling software, synthesizer, videotape, multi-track sound recording).

COURSE NOTE: This course is specific for the Specialist High Skills Major.

CREDIT: 1

TYPE: Open

GRADE: 11

Visual Arts

AVI300

This course focuses on studio activities in one or more of the visual arts. Students will create art works that explore a wide range of subject matter, and will evaluate art works, providing grounds for their aesthetic judgments. They will also examine historical and cultural contexts of Western art (including Canadian art) and art from various world cultures to support their study of specific media.

CREDIT: 1

TYPE: Open

GRADE: 11

PRE-REQUISITE: AVI100 - Visual Arts; AVI200 - Visual Arts

Visual Arts

AVI3M0

This course provides students with opportunities to further develop their skills and knowledge in visual arts. Students will explore a range of subject matter through studio activities, and will consolidate their practical skills. Students will also analyze art works and study aspects of Western art history, as well as art forms from Canada and other parts of the world.

CREDIT: 1

TYPE: College/University

GRADE: 11

PRE-REQUISITE: AVI100 - Visual Arts; AVI200 - Visual Arts

Visual Arts

AVI4M0

This course focuses on the refinement of students' skills and knowledge in visual arts. Students will analyze art forms; use theories of art in analyzing and producing art; and increase their understanding of stylistic changes in modern and contemporary Western art, Canadian (including Native Canadian) art, and art forms from various parts of the world. Students will produce a body of work demonstrating a personal approach.

CREDIT: 1

TYPE: College/University

GRADE: 12

PRE-REQUISITE: AVI3M0 - Visual Arts; AVI300 - Visual Arts

Business Studies

Introduction to Financial Accounting

BAF3M0

This course introduces students to the fundamental principles and procedures of accounting. Students will develop financial analysis and decision-making skills that will assist them in future studies and/or career opportunities in business. Students will acquire an understanding of accounting for a service and a merchandising business, computerized accounting, financial analysis, and ethics and current issues in accounting.

CREDIT: 1

TYPE: College/University

GRADE: 11

Canadian and World Studies

Canadian / World Studies - Geography

Geography of Canada

CGC1P0

This course focuses on geographic issues that affect Canadians today. Students will draw on personal and everyday experiences as they learn about Canada's distinct and changing character and the natural and

human systems and global influences that shape the country. Students will use a variety of geotechnologies and inquiry and communication methods to examine practical geographic questions and communicate their findings.

CREDIT: 1

TYPE: Applied

GRADE: 9

Geography of Canada

CGC1D0

This course explores Canada's distinct and changing character and the geographic systems and relationships that shape it. Students will investigate the interactions of natural and human systems within Canada, as well as Canada's economic, cultural, and environmental connections to other countries. Students will use a variety of geotechnologies and inquiry and communication methods to analyze and evaluate geographic issues and present their findings.

CREDIT: 1

TYPE: Academic

GRADE: 9

Geography of Canada (Immersion)

CGC1DI

This course explores Canada's distinct and changing character and the geographic systems and relationships that shape it. Students will investigate the interactions of natural and human systems within Canada, as well as Canada's economic, cultural, and environmental connections to other countries. Students will use a variety of geotechnologies and inquiry and communication methods to analyze and evaluate geographic issues and present their findings.

COURSE NOTE: This course is for French Immersion students in grades 9 & 10.

CREDIT: 1

TYPE: Academic

GRADE: 9

Geography (Skills for Success)

CGC1P4

This course focuses on geographic issues that affect Canadians today. Students will draw on personal and everyday experiences as they learn about Canada's distinct and changing character and the natural and human systems and global influences that shape the country. Students will use a variety of geotechnologies and inquiry and communication methods to examine practical geographic questions and communicate their findings.

COURSE NOTE: students in the Skills for Success program should select the CGC1P4 course.

CREDIT: 1

TYPE: Applied

GRADE: 10

Regional Geography: Travel and Tourism

CGG300

This course focuses on travel and tourism as the vehicle for studying selected world regions. Using a variety of geotechnologies and inquiry and communication methods, students will conduct and present case studies that develop their understanding of the unique characteristics of selected world regions; the environmental, cultural, economic, and political factors that influence travel and tourism; and the impact of the travel industry on communities and environments around the world.

CREDIT: 1

TYPE: Open

GRADE: 11

The Environment and Resource Management

CGR4M0

This course investigates the complexity and fragility of ecosystems and the pressures human activities place on them. Students will examine ecological processes, the principles of sustainability, and strategies for resource management, with a focus on the challenges of environmental degradation and resource depletion. Students will use geotechnologies and skills of geographic inquiry to explain and evaluate various approaches to achieving a more sustainable relationship between people and their environment.

COURSE NOTE: Any U, U/C, or C preparation course in Canadian and World Studies, English, or Social Sciences and the Humanities.

CREDIT: 1

TYPE: College/University

GRADE: 12

PRE-REQUISITE: Any university, university/college preparation course in Canadian and World Studies, English, or Social Sciences and Humanities.

Canadian / World Studies - History

Civics

CHV200

This course explores what it means to be an informed, participating citizen in a democratic society. Students will learn about the elements of democracy in local, national, and global contexts, about political reactions to social change, and about political decision-making processes in Canada. They will explore their own and others' ideas about civics questions and learn how to think critically about public issues and react responsibly to them.

CREDIT: 0.5

TYPE: Open

GRADE: 10

Civics (Skills for Success)

CHV204

This course explores what it means to be an informed, participating citizen in a democratic society. Students will learn about the elements of democracy in local, national, and global contexts, about political reactions to social change, and about political decision-making processes in Canada. They will explore their own and others' ideas about civics questions and learn how to think critically about public issues and react responsibly to them.

COURSE NOTE: students in the Skills for Success program should select the CHV 204 course.

CREDIT: 0.5

TYPE: Open

GRADE: 10

Civics (French Immersion)

CHV20I

This course explores what it means to be an informed, participating citizen in a democratic society. Students will learn about the elements of democracy in local, national, and global contexts, about political reactions to social change, and about political decision-making processes in Canada. They will explore their own and others' ideas about civics questions and learn how to think critically about public issues and react responsibly to them.

COURSE NOTE: students registered in the French Immersion or Extended French Immersion program will select this course.

CREDIT: 0.5

TYPE: Open

GRADE: 10

Canadian History in the Twentieth Century

CHC2P0

This course explores some of the pivotal events and experiences that have influenced the development of Canada's identity as a nation from World War I to the present. By examining how the country has responded to economic, social, and technological changes and how individuals and groups have contributed to Canadian culture and society during this period, students will develop their ability to make connections between historical and current events. Students will have opportunities to formulate questions, locate information, develop informed opinions, and present ideas about the central issues and events of the period.

CREDIT: 1

TYPE: Applied

GRADE: 10

Canadian History in the Twentieth Century

CHC2D0

This course explores the local, national, and global forces that have shaped Canada's national identity from World War I to the present. Students will investigate the challenges presented by economic, social, and technological changes and explore the contributions of individuals and groups to Canadian culture and society during this period. Students will use critical-thinking and communication skills to evaluate various interpretations of the issues and events of the period and to present their own points of view.

CREDIT: 1

TYPE: Academic

GRADE: 10

Canadian History in the Twentieth Century (Immersion)

CHC2DI

This course explores the local, national, and global forces that have shaped Canada's national identity from World War I to the present. Students will investigate the challenges presented by economic, social, and technological changes and explore the contributions of individuals and groups to Canadian culture and society during this period. Students will use critical-thinking and communication skills to evaluate various interpretations of the issues and events of the period and to present their own points of view.

COURSE NOTE: This course is for students in the French Immersion program.

CREDIT: 1

TYPE: Academic

GRADE: 10

World History: The West and the World (University Preparation)

CHY4UO

This course investigates the major trends in Western civilization and world history from the sixteenth century to the present. Students will learn about the interaction between the emerging West and other regions of the world and about the development of modern social, political, and economic systems. The skills and knowledge developed in this course will enable students to understand and appreciate both the character of historical change and the historical roots of contemporary issues.

CREDIT: 1

TYPE: University

GRADE: 12

PRE-REQUISITE: Any U or U/C preparation course in Canadian and World Studies, English, or Social Sciences and the Humanities.

World History: The West and the World

CHY4CO

This course explores the history of the world since the sixteenth century, emphasizing the interaction between the emerging West and other regions of the world. Students will learn about a variety of economic, social, and political systems and the changes they have undergone over time. Students will apply their developing skills of historical inquiry to understand and communicate ideas about the forces that have formed our modern world.

CREDIT: 1

TYPE: College

GRADE: 12

PRE-REQUISITE: Any C, U/C or U preparation course in Canadian and World Studies, English, or Social Sciences and the Humanities.

Canadian History in the Twentieth Century (Skills for Success)

CHC2P4

This course explores some of the pivotal events and experiences that have influenced the development of Canada's identity as a nation from World War I to the present. By examining how the country has responded to economic, social, and technological changes and how individuals and groups have contributed to Canadian culture and society during this period, students will develop their ability to make connections between historical and current events. Students will have opportunities to formulate questions, locate information, develop informed opinions, and present ideas about the central issues and events of the period.

COURSE NOTE: This course is reserved for students in the Skills for Success Program.

CREDIT: 1

TYPE: Applied

GRADE: 12

Canadian / World Studies - Law

Understanding Canadian Law**CLU3M0**

This course explores Canadian law with a focus on legal issues that are relevant to people's everyday lives. Students will investigate fundamental legal concepts and processes to gain a practical understanding of Canada's legal system, including the criminal justice system. Students will use critical-thinking, inquiry, and communication skills to develop informed opinions on legal issues and apply this knowledge in a variety of ways and settings, including case analysis, legal research projects, mock trials, and debates.

CREDIT: 1**TYPE: College/University****GRADE: 11**

PRE-REQUISITE: CHC2D0 - Canadian History in the Twentieth Century; CHC2P0 - Canadian History in the Twentieth Century

Understanding Canadian Law - French Immersion**CLU3MI**

This course explores Canadian law with a focus on legal issues that are relevant to people's everyday lives. Students will investigate fundamental legal concepts and processes to gain a practical understanding of Canada's legal system, including the criminal justice system. Students will use critical-thinking, inquiry, and communication skills to develop informed opinions on legal issues and apply this knowledge in a variety of ways and settings, including case analysis, legal research projects, mock trials, and debates.

COURSE NOTE: students registered in the French Immersion or Extended French Immersion program will select this course.

CREDIT: 1**TYPE: College/University****GRADE: 11**

PRE-REQUISITE: CHC2DI - Canadian History in the Twentieth Century (Immersion)

Co-operative Education**Co-operative Education****ENG3CC**

Please refer to "Special programs" for complete information regarding co-operative education. If interested please see Mrs. Prusila for coop applications. Students applying to the coop program must be committed to follow through in the program. Students participating in the coop program must be 16 years old and meet all school coop policies and guidelines. All required forms must be submitted by March 23rd, 2010.

CREDIT: 2**TYPE: Open****GRADE: 11**

Co-operative Education (SHSM) Open**TGJ3MC**

This course is intended for students in the Specialist High Skills Major Program in Communications Technology. The coop placement will be related to the field of Communications and Information Technology. Students in the SHSM Program MUST complete 2 credits in coop. For more information on co-operative education please refer to the special programs section. If you are in the SHSM Program you must see Mrs. Prusila for an application form which must be completed and handed in by March 23, 2010.

COURSE NOTE: This course is reserved for students in the High Skills Program. This is the open level course.

CREDIT: 2**TYPE: Open****GRADE: 11**

Cooperative Education**ENG4CC**

Please refer to "Special programs" for complete information regarding co-operative education. If interested please see Mrs. Prusila for coop applications. Students applying to the coop program must be committed to follow through in the program. Students participating in the coop program must be 16 years old and meet all school coop policies and guidelines. All required forms must be submitted by March 23rd, 2010.

also explore environmental and ergonomic issues, emerging research in computer science, and global career trends in computer-related fields.

CREDIT: 1

TYPE: University

GRADE: 11

Introduction to Computer Programming

ICS3C0

This course introduces students to computer programming concepts and practices. Students will write and test computer programs, using various problem-solving strategies. They will learn the fundamentals of program design and apply a software development life-cycle model to a software development project. Students will also learn about computer environments and systems, and explore environmental issues related to computers, safe computing practices, emerging technologies, and post-secondary opportunities in computer-related fields.

CREDIT: 1

TYPE: College

GRADE: 11

Computer Science

ICS4U0

This course enables students to further develop knowledge and skills in computer science. Students will use modular design principles to create complex and fully documented programs, according to industry standards. Student teams will manage a large software development project, from planning through to project review. Students will also analyze algorithms for effectiveness. They will investigate ethical issues in computing and further explore environmental issues, emerging technologies, areas of research in computer science, and careers in the field.

CREDIT: 1

TYPE: University

GRADE: 12

PRE-REQUISITE: ICS3U0 - Introduction to Computer Science

Computer Programming

ICS4C0

This course further develops students' computer programming skills. Students will learn object-oriented programming concepts, create object-oriented software solutions, and design graphical user interfaces. Student teams will plan and carry out a software development project using industry-standard programming tools and proper project management techniques. Students will also investigate ethical issues in computing and expand their understanding of environmental issues, emerging technologies, and computer-related careers.

CREDIT: 1

TYPE: College

GRADE: 12

English

English Essentials (Skills for Success)

ENG1L4

This course provides foundational literacy and communication skills to prepare students for success in their daily lives, in the workplace, in the Grade 10 LDCC Course. Strands that develop listening and talking skills, reading and viewing skills, and writing skills, organize the course. In all strands, the focus is on developing foundational literacy skills and on using language clearly and accurately in a variety of authentic contexts. Students develop strategies and put into practice the processes involved in talking, listening, reading, viewing, writing, and thinking, and reflect regularly upon their growth in these areas.

COURSE NOTE: The ENG 1L4 course is to be selected by students registered in the Skills for Success program.

CREDIT: 1

TYPE: Workplace

GRADE: 9

English

ENG1P0

This course is designed to develop the key oral communication; reading, writing, and media literacy skills students need for success in secondary school and daily life. Students will read, interpret, and create a variety of informational, literary, and graphic texts. An important focus will be on identifying and using appropriate strategies and processes to improve students' comprehension of texts and to help them communicate clearly and effectively. The course is intended to prepare students for the Grade 10 applied English course, which leads to college or workplace preparation courses in Grades 11 and 12.

CREDIT: 1

TYPE: Applied

GRADE: 9

English

ENG1D0

This course is designed to develop the oral communication, reading, writing, and media literacy skills that students need for success in their secondary school academic programs and in their daily lives. Students will analyze literary texts from contemporary and historical periods, interpret informational and graphic texts, and create oral, written, and media texts in a variety of forms. An important focus will be on the use of strategies that contribute to effective communication. The course is intended to prepare students for the Grade 10 academic English course, which leads to university or college preparation courses in Grades 11 and 12.

CREDIT: 1

TYPE: Academic

GRADE: 9

English (Skills for Success)

ENG2L4

In this course, students focus on extending their literacy and communication skills to prepare for success in their daily lives, in the workplace, in the English, Grade 11, Workplace Preparation course. Strands that extend listening and talking skills, reading and viewing skills, and writing skills, organize the course. In all strands, the focus is on refining foundational literacy skills and on using language clearly and accurately in a variety of authentic contexts. Students build on their strategies and engage in the processes involved in talking, listening, reading, viewing, writing, and thinking. Students reflect regularly upon their growth in these areas.

COURSE NOTE: The ENG2L4 course is to be selected by students registered in the Skills for Success program.

CREDIT: 1

TYPE: Workplace

GRADE: 10

PRE-REQUISITE: ENG1L4 - English Essentials (Skills for Success); ENG2P0 - English

Literacy SKILLS

ELS200

This course is designed to help students strengthen essential reading and writing skills, providing them with the extra literacy support they need in order to graduate. Students will read information, graphic, and literary texts, with a focus on locating information, identifying main ideas and supporting details, building vocabulary, and consolidating skills in the application of key comprehension strategies. The course will also help students develop core-learning strategies.

CREDIT: 1

TYPE: Open

GRADE: 10

PRE-REQUISITE: ENG1D0 - English; ENG1P0 - English; ENG1L4 - English Essentials (Skills for Success)

English**ENG2P0**

This course is designed to extend the range of oral communication, reading, writing, and media literacy skills that students need for success in secondary school and daily life. Students will study and create a variety of informational, literary, and graphic texts. An important focus will be on the consolidation of strategies and processes that help students interpret texts and communicate clearly and effectively. This course is intended to prepare students for the compulsory Grade 11 college or workplace preparation course.

CREDIT: 1**TYPE:** Applied**GRADE:** 10**PRE-REQUISITE:** ENG1D0 - English; ENG1P0 - English

English**ENG2D0**

This course is designed to extend the range of oral communication, reading, writing, and media literacy skills that students need for success in their secondary school academic programs and in their daily lives. Students will analyze literary texts from contemporary and historical periods, interpret and evaluate informational and graphic texts, and create oral, written, and media texts in a variety of forms. An important focus will be on the selective use of strategies that contribute to effective communication. This course is intended to prepare students for the compulsory Grade 11 university or college preparation course.

CREDIT: 1**TYPE:** Academic**GRADE:** 10**PRE-REQUISITE:** ENG1D0 - English; ENG1P0 - English

English**ENG3E0**

This course emphasizes the development of literacy, communication, and critical and creative thinking skills necessary for success in the workplace and in daily life. Students will study the content, form, and style of a variety of contemporary informational, graphic, and literary texts; and create oral, written, and media texts in a variety of forms for practical purposes. An important focus will be on using language clearly and accurately in a variety of formal and informal contexts. The course is intended to prepare students for the compulsory Grade 12 workplace preparation course.

CREDIT: 1**TYPE:** Workplace**GRADE:** 11**PRE-REQUISITE:** ENG2P0 - English

English (Skills for Success)**ENG3E4**

This course emphasizes the development of literacy, communication, and critical and creative thinking skills necessary for success in the workplace and in daily life. Students will study the content, form, and style of a variety of contemporary informational, graphic, and literary texts; and create oral, written, and media texts in a variety of forms for practical purposes. An important focus will be on using language clearly and accurately in a variety of formal and informal contexts. The course is intended to prepare students for the compulsory Grade 12 workplace preparation course.

COURSE NOTE: This course is for students in the Skills for Success Program.**CREDIT:** 1**TYPE:** Workplace**GRADE:** 11**PRE-REQUISITE:** ENG2D0 - English; ENG2L4 - English (Skills for Success); ENG2P0 - English

English**ENG3U0**

This course emphasizes the development of literacy, communication, and critical and creative thinking skills

necessary for success in academic and daily life. Students will analyze challenging literary texts from various periods, countries, and cultures, as well as a range of informational and graphic texts, and create oral, written, and media texts in a variety of forms. An important focus will be on using language with precision and clarity and incorporating stylistic devices appropriately and effectively. The course is intended to prepare students for the compulsory Grade 12 university or college preparation course.

CREDIT: 1

TYPE: University

GRADE: 11

PRE-REQUISITE: ENG2D0 - English

Literacy Skills (Skills for Success)

ELS204

This course is designed to help students strengthen essential reading and writing skills, providing them with the extra literacy support they need in order to graduate. Students will read information, graphic, and literary texts, with a focus on locating information, identifying main ideas and supporting details, building vocabulary, and consolidating skills in the application of key comprehension strategies. The course will also help students develop core-learning strategies.

COURSE NOTE: This Course is reserved for the Skills For Success Program.

CREDIT: 1

TYPE: Open

GRADE: 11

PRE-REQUISITE: ENG1L4 - English Essentials (Skills for Success)

English - Media Studies

EMS300

This course emphasizes knowledge and skills that will enable students to understand media communication in the twenty-first century and to use media effectively and responsibly. Through analyzing the forms and messages of a variety of media works and audience responses to them, and through creating their own media works, students will develop critical thinking skills, aesthetic and ethical judgment, and skills in viewing, representing, listening, speaking, reading, and writing.

CREDIT: 1

TYPE: Open

GRADE: 11

PRE-REQUISITE: ENG2P0 - English; ENG2D0 - English; ENG2L4 - English (Skills for Success)

English

ENG3C0

This course emphasizes the development of literacy, communication, and critical and creative thinking skills necessary for success in academic and daily life. Students will study the content, form, and style of a variety of informational and graphic texts, as well as literary texts from Canada and other countries, and create oral, written, and media texts in a variety of forms for practical and academic purposes. An important focus will be on using language with precision and clarity. The course is intended to prepare students for the compulsory Grade 12 college preparation course.

CREDIT: 1

TYPE: College

GRADE: 11

PRE-REQUISITE: ENG2D0 - English; ENG2P0 - English

English, Grade 12, Workplace Preparation

ENG4E0

This course emphasizes the consolidation of literacy, communication, and critical and creative thinking skills necessary for success in the workplace and in daily life. Students will analyze informational, graphic, and literary texts and create oral, written, and media texts in a variety of forms for workplace-related and practical purposes. An important focus will be on using language accurately and organizing ideas and information coherently. The course is intended to prepare students for the workplace and active citizenship.

CREDIT: 1

TYPE: Workplace

GRADE: 12

PRE-REQUISITE: ENG3E0 - English

English, Grade 12, Workplace Preparation (Skills for Success)

ENG4E4

This course emphasizes the consolidation of literacy, communication, critical and creative thinking skills necessary for success in the workplace and in daily life. Students will analyze information in graphic, and literary texts and create oral, written, and media texts in a variety of forms for workplace-related and practical purposes. An important focus will be in using language accurately and organizing ideas and information coherently. The course is intended to prepare students for the workplace and active citizenship.

COURSE NOTE: This course is for students in the Skills for Success Program.

CREDIT: 1

TYPE: Workplace

GRADE: 12

PRE-REQUISITE: ENG3C0 - English; ENG3E4 - English (Skills for Success)

Ontario Literacy Course (Skills for Success)

OLC4O4

This course is designed to help students acquire and demonstrate the cross-curricular literacy skills that are evaluated by the Ontario Secondary School Literacy Test (OSSLT). Students who complete the course successfully will meet the provincial literacy requirement for graduation. Students will read a variety of informational, narrative, and graphic texts and will produce a variety of forms of writing, including summaries, information paragraphs, opinion pieces, and news reports. Students will also maintain and manage a portfolio containing a record of their reading experiences and samples of their writing. Eligibility requirement: Students who have been eligible to write the OSSLT at least twice and who have been unsuccessful at least once are eligible to take the course.

COURSE NOTE: The OLC4O4 course is to be selected by students registered in the Skills for Success program.

CREDIT: 1

TYPE: Workplace

GRADE: 12

English

ENG4U0

This course emphasizes the consolidation of the literacy, communication, and critical and creative thinking skills necessary for success in academic and daily life. Students will analyze a range of challenging literary texts from various periods, countries, and cultures; interpret and evaluate informational and graphic texts; and create oral, written, and media texts in a variety of forms. An important focus will be on using academic language coherently and confidently, selecting the reading strategies best suited to particular texts and particular purposes for reading, and developing greater control in writing. The course is intended to prepare students for university, college, or the workplace.

CREDIT: 1

TYPE: University

GRADE: 12

PRE-REQUISITE: ENG3U0 - English

The Writer's Craft (e-learning)

EWC4U0

This course emphasizes knowledge and skills related to the craft of writing. Students will analyze models of effective writing; use a workshop approach to produce a range of works; identify and use techniques required

for specialized forms of writing; and identify effective ways to improve the quality of their writing. They will also complete a major paper as part of a creative or analytical independent study project and investigate opportunities for publication and for writing careers.

COURSE NOTE: This course may be offered through e-learning.

CREDIT: 1

TYPE: University

GRADE: 12

PRE-REQUISITE: ENG3U0 - English

The Ontario Secondary School Literacy Course

OLC400

This course is designed to help students acquire and demonstrate the cross-curricular literacy skills that are evaluated by the Ontario Secondary School Literacy Test (OSSLT). Students who complete the course successfully will meet the provincial literacy requirement for graduation. Students will read a variety of informational, narrative, and graphic texts and will produce a variety of forms of writing, including summaries, information paragraphs, opinion pieces, and news reports. Students will also maintain and manage a portfolio containing a record of their reading experiences and samples of their writing. Eligibility requirement: Students who have been eligible to write the OSSLT at least twice and who have been unsuccessful at least once are eligible to take the course.

COURSE NOTE: Students who have already met the literacy requirement for graduation may be eligible to take the course under special circumstances, at the discretion of the principal.

CREDIT: 1

TYPE: Open

GRADE: 12

English

ENG4C0

This course emphasizes the consolidation of literacy, communication, and critical and creative thinking skills necessary for success in academic and daily life. Students will analyze a variety of informational and graphic texts, as well as literary texts from various countries and cultures, and create oral, written, and media texts in a variety of forms for practical and academic purposes. An important focus will be on using language with precision and clarity and developing greater control in writing. The course is intended to prepare students for college or the workplace.

CREDIT: 1

TYPE: College

GRADE: 12

PRE-REQUISITE: ENG3C0 - English; ENG3U0 - English

French

Core French

FSF1P0

This course emphasizes the concurrent development of oral communication, reading, and writing skills, using a broad-based theme such as the media. Students will enhance their ability to understand and speak French through conversations, discussions, and presentations. They will also read short stories, articles, poems, and songs, and write brief descriptions, letters, dialogues, and invitations.

CREDIT: 1

TYPE: Applied

GRADE: 9

French Immersion

FIF1D0

This course enables students to enhance their knowledge of the French language and to further develop their language skills through the study of twentieth-century North American francophone literature and culture. Students will participate in oral communication, reading, and writing activities as they study an authentic novel and selected authentic poems, legends, songs, films, and newspaper articles from French-speaking parts of North America.

COURSE NOTE: This course is reserved for students in the French Immersion program.

CREDIT: 1 **TYPE:** Academic **GRADE:** 9

Core French

FSF1D0

This course emphasizes the further development of oral communication, reading, and writing skills. Students will build on and apply their knowledge of French while exploring a variety of themes, such as relationships, social trends, and careers. Thematic readings, which include a selection of short stories, articles, and poems, will serve as stepping-stones to oral and written activities.

CREDIT: 1 **TYPE:** Academic **GRADE:** 9

French Immersion

FIF2D0

This course enables students to increase their knowledge of the French language and to further develop their language skills through the study of twentieth-century European francophone literature and culture. Students will participate in oral communication, reading, and writing activities based on a variety of French literary and media works. They will study at least one novel and a selection of poems, short stories, films, plays, and newspaper and magazine articles.

COURSE NOTE: This course is reserved for students in the French Immersion program.

CREDIT: 1 **TYPE:** Academic **GRADE:** 10

PRE-REQUISITE: FIF1D0 - French Immersion

French Immersion

FIF3U0

This course develops knowledge and language skills through the study of francophone literature and culture from around the world. Students will study novels, plays, poems, short stories, films, and non-fiction works and produce written assignments in a variety of forms, including critiques and précis. They will also write a formal research essay. The use of correct grammar and appropriate language conventions in both spoken and written French will be emphasized throughout the course.

COURSE NOTE: This course is reserved for students in the French Immersion program.

CREDIT: 1 **TYPE:** University **GRADE:** 11

PRE-REQUISITE: FIF2D0 - French Immersion

French Immersion

FIF4U0

This course provides for extensive study of French literature and culture from the Middle Ages to the present. Students will study novels, plays, poems, films, and non-fiction works produced in various historical periods, and will write a formal research paper. The use of correct grammar and appropriate language conventions in both spoken and written French will be emphasized throughout the course.

COURSE NOTE: This course is reserved for students in the French Immersion program.

CREDIT: 1 **TYPE:** University **GRADE:** 12

PRE-REQUISITE: FIF3U0 - French Immersion

Guidance and Career Education

Learning Strategies 1: Skills for Success in Secondary School

GLE100

This course focuses on learning strategies to help students become better, more independent learners. Students will learn how to develop and apply literacy and numeracy skills, personal management skills, and

interpersonal and teamwork skills to improve their learning and achievement in school, the workplace, and the community. The course helps students build confidence and motivation to pursue opportunities for success in secondary school and beyond.

CREDIT: 1

TYPE: Open

GRADE: 9

PRE-REQUISITE: Principal recommendation required.

Learning Strategies 1: Skills for Success in Secondary School

GLE104

This course focuses on learning strategies to help students become better, more independent learners. Students will learn how to develop and apply literacy and numeracy skills, personal management skills, and interpersonal and teamwork skills to improve their learning and achievement in school, the workplace, and the community. The course helps students build confidence and motivation to pursue opportunities for success in secondary school and beyond.

COURSE NOTE: This course is for students in the Skills for Success Program. Principal recommendation.

CREDIT: 1

TYPE: Open

GRADE: 9

PRE-REQUISITE: Principal recommendation required.

Learning Strategies 1: Skills for Success in Secondary School (French Exempt)

GLE10F

This course focuses on learning strategies to help students become better, more independent learners. Students will learn how to develop and apply literacy and numeracy skills, personal management skills, and interpersonal and teamwork skills to improve their learning and achievement in school, the workplace, and the community. The course helps students build confidence and motivation to pursue opportunities for success in secondary school and beyond.

COURSE NOTE: This course is for students who are French exempt.

CREDIT: 1

TYPE: Open

GRADE: 9

PRE-REQUISITE: Principal recommendation required.

Learning Strategies

GLS100

This course focuses on learning strategies to help students become better, more independent learners. Students will learn how to develop and apply literacy and numeracy skills, personal management skills, and interpersonal and teamwork skills to improve their learning and achievement in school, the workplace, and the community. The course helps students build confidence and motivation to pursue opportunities for success in secondary school and beyond.

CREDIT: 1

TYPE: Open

GRADE: 9

Learning Strategies (Skills for Success)

GLS104

This course focuses on learning strategies to help students become better, more independent learners. Students will learn how to develop and apply literacy and numeracy skills, personal management skills, and interpersonal and teamwork skills to improve their learning and achievement in school, the workplace, and the community. The course helps students build confidence and motivation to pursue opportunities for success in secondary school and beyond.

COURSE NOTE: This course is reserved for the Skills for Success program.

CREDIT: 1

TYPE: Open

GRADE: 9

Career Studies

GLC200

This course teaches students how to develop and achieve personal goals for future learning, work, and

community involvement. Students will assess their interests, skills, and characteristics and investigate current economic and workplace trends, work opportunities, and ways to search for work. The course explores postsecondary learning and career options, prepares students for managing work and life transitions, and helps students focus on their goals through the development of a career plan.

CREDIT: 0.5

TYPE: Open

GRADE: 10

Career Studies (Skills for Success)

GLC204

This course teaches students how to develop and achieve personal goals for future learning, work, and community involvement. Students will assess their interests, skills, and characteristics and investigate current economic and workplace trends, work opportunities, and ways to search for work. The course explores postsecondary learning and career options, prepares students for managing work and life transitions, and helps students focus on their goals through the development of a career plan.

COURSE NOTE: This course will be selected by students registered in the Skills for Success program

CREDIT: 0.5

TYPE: Open

GRADE: 10

Career Studies (Immersion)

GLC20I

This course teaches students how to develop and achieve personal goals for future learning, work, and community involvement. Students will assess their interests, skills, and characteristics and investigate current economic and workplace trends, work opportunities, and ways to search for work. The course explores postsecondary learning and career options, prepares students for managing work and life transitions, and helps students focus on their goals through the development of a career plan.

COURSE NOTE: students registered in the French Immersion or Extended French Immersion program will select this course.

CREDIT: 0.5

TYPE: Open

GRADE: 10

Discovering the Workplace (Skills for Success)

GLD204

This course provides students with opportunities to discover and develop the workplace essential skills and work habits required to be successfully employed. Students will develop an understanding of work through practical hands-on experiences in the school and in the community, using real workplace materials. They investigate occupations of interest through experiential learning opportunities, such as worksite visits, job shadowing, work experience, simulations, and entrepreneurial projects. This course helps students make plans for continued learning and work.

COURSE NOTE: This course will be selected by students registered in the Skills for Success program

CREDIT: 1

TYPE: Open

GRADE: 10

Learning Strategies

GLE200

This course focuses on learning strategies to help students become better, more independent learners. Students will learn how to develop and apply literacy and numeracy skills, personal management skills, and interpersonal and teamwork skills to improve their learning and achievement in school, the workplace, and the community. The course helps students build confidence and motivation to pursue opportunities for success in secondary school and beyond.

CREDIT: 1

TYPE: Open

GRADE: 10

PRE-REQUISITE: Recommendation of principal.

Advanced Learning Strategies: Skills for Success

GLE300

This course improves students' learning and personal-management skills, preparing them to make successful

transitions to work, training, and/or postsecondary education destinations. Students will assess their learning abilities and use literacy, numeracy, and research skills and personal-management techniques to maximize their learning. Students will investigate trends and resources to support their postsecondary employment, training, and/or education choices and develop a plan to help them meet their learning and career goals.

CREDIT: 1

TYPE: Open

GRADE: 11

PRE-REQUISITE: Recommendation of principal.

Leadership & Peer Support

GPP300

This course prepares students to act in leadership and peer support roles. They will design and implement a plan for contributing to their school and/or community; develop skills in communication, interpersonal relations, teamwork, and conflict management; and apply those skills in leadership and/or peer support roles – for example, as a student council member or a peer tutor. Students will examine group dynamics and learn the value of diversity within groups and communities.

CREDIT: 1

TYPE: Open

GRADE: 11

PRE-REQUISITE: GLC200 - Career Studies; GLC204 - Career Studies (Skills for Success); GLC201 - Career Studies (Immersion)

Advanced Learning Strategies: Skills for Success

GLE400

This course improves students' learning and personal-management skills, preparing them to make successful transitions to work, training, and/or postsecondary education destinations. Students will assess their learning abilities and use literacy, numeracy, and research skills and personal-management techniques to maximize their learning. Students will investigate trends and resources to support their postsecondary employment, training, and/or education choices and develop a plan to help them meet their learning and career goals.

CREDIT: 1

TYPE: Open

GRADE: 12

PRE-REQUISITE: Recommendation of principal.

Health and Physical Education

Healthy Active Living Education

PPL100

This course emphasizes regular participation in a variety of enjoyable physical activities that promote lifelong healthy active living. Students will learn movement skills and principles, ways to improve personal fitness and physical competence, and safety and injury prevention. They will investigate issues related to healthy sexuality and the use and abuse of alcohol, tobacco, and other drugs, and will participate in activities designed to

develop goal setting, communication, and social skills.

CREDIT: 1

TYPE: Open

GRADE: 9

Healthy Active Living (Skills for Success)

PPL104

This course emphasizes regular participation in a variety of enjoyable physical activities that promote lifelong healthy active living. Students will learn movement skills and principles, ways to improve personal fitness and physical competence, and safety and injury prevention. They will investigate issues related to healthy sexuality and the use and abuse of alcohol, tobacco, and other drugs, and will participate in activities designed to develop goal setting, communication, and social skills.

COURSE NOTE: The PPL104 course is to be selected only by students registered in the Skills for Success program.

CREDIT: 1

TYPE: Open

GRADE: 9

Healthy Active Living (Immersion)

PPL10I

This course emphasizes regular participation in a variety of enjoyable physical activities that promote lifelong healthy active living. Students will learn movement skills and principles, ways to improve personal fitness and physical competence, and safety and injury prevention. They will investigate issues related to healthy sexuality and the use and abuse of alcohol, tobacco, and other drugs, and will participate in activities designed to develop goal setting, communication, and social skills.

COURSE NOTE: The PPL10I course is reserved for students in the French Immersion and Extended French Immersion Programs.

CREDIT: 1

TYPE: Open

GRADE: 9

Healthy Active Living Education

PPL200

This course emphasizes regular participation in a variety of enjoyable physical activities that promote lifelong healthy active living. Student learning will include the application of movement principles to refine skills; participation in a variety of activities that enhance personal competence, fitness, and health; examination of issues related to healthy sexuality, healthy eating, substance use and abuse; and the use of informed decision-making, conflict resolution, and social skills in making personal choices.

CREDIT: 1

TYPE: Open

GRADE: 10

Healthy Active Living (Skills for Success)

PPL204

This course emphasizes regular participation in a variety of enjoyable physical activities that promote lifelong healthy active living. Student learning will include the application of movement principles to refine skills; participation in a variety of activities that enhance personal competence, fitness, and health; examination of issues related to healthy sexuality, healthy eating, substance use and abuse; and the use of informed decision-making, conflict resolution, and social skills in making personal choices.

COURSE NOTE: The PPL204 course is to be selected only by students in the Skills for Success program.

CREDIT: 1

TYPE: Open

GRADE: 10

Personal and Fitness Activities

PAF300

This course emphasizes regular participation in a variety of physical activities that promote lifelong healthy active living with an accent on fitness. Activities such as aerobics, cross country skiing, running, orienteering, biking, roller blading, swimming, and weight training will be the focus for each class, but there will also be opportunities to enjoy games of low organization such as team handball, floor hockey and Frisbee. The healthy living strand will focus on the components of healthy relationships, reproductive health, mental health, and personal safety.

COURSE NOTE: There is an activity fee cost of \$50.00 for this course.

CREDIT: 1

TYPE: Open

GRADE: 11

Healthy Active Living, Grade 11 Open

PPL300

This course focuses on the development of a healthy lifestyle and participation in a variety of enjoyable physical activities that have the potential to engage students' interest throughout their lives. Students will be encouraged to develop personal competence in a variety of movement skills and will be given opportunities to practice goal-setting, decision-making, social, and interpersonal skills. Students will also study the components of healthy relationships, reproductive health, mental health, and personal safety.

CREDIT: 1

TYPE: Open

GRADE: 11

Health for Life (e-learning)

PPZ300

This course helps students develop a personalized approach to healthy living. Students will examine the factors that affect their own health and the health of individuals as members of the community. They will learn about the components of the Vitality approach to healthy living – an initiative that promotes healthy eating, an active lifestyle, and a positive self-image. Throughout this course, students will develop the skills necessary to take charge of and improve their own health, as well as to encourage others to lead healthy lives.

COURSE NOTE: This is an e-learning course.

CREDIT: 1

TYPE: Open

GRADE: 11

Exercise Science

PSE4U0

This course focuses on the study of human movement and of systems, factors, and principles involved in human development. Students will learn about the effects of physical activity on health and performance, the evolution of physical activity and sports, and the factors that influence an individual's participation in physical activity. The course prepares students for university programs in physical education, kinesiology, recreation, and sports administration.

CREDIT: 1

TYPE: University

GRADE: 12

PRE-REQUISITE: Any grade 11 U or U/C preparation course in science, and/or recreation and fitness leadership.

Healthy Active Living Education

PPL400

This course focuses on the development of a personalized approach to healthy active living through participation in a variety of sports and recreational activities that have the potential to engage students' interest throughout their lives. Students will develop and implement personal physical fitness plans. In addition, they will be given opportunities to refine their decision making, conflict-resolution, and interpersonal skills, with a view to enhancing their mental health and their relationships with others.

CREDIT: 1

TYPE: Open

GRADE: 12

Recreation and Fitness Leadership

PLF4C0

This course focuses on the development of leadership and coordination skills related to recreational activities. Students will acquire the knowledge and skills required to plan, organize, and implement recreational events. They will also learn how to promote the value of physical fitness, personal well-being, and personal safety to others through mentoring. The course will prepare students for college programs in recreational, leisure, and fitness leadership.

CREDIT: 1

TYPE: College

GRADE: 12

Interdisciplinary Studies

Interdisciplinary Studies (e-learning)

IDC4U0

This course will help students develop and consolidate the skills required for and knowledge of different subjects and disciplines to solve problems, make decisions, create personal meaning, and present findings beyond the scope of a single subject or discipline. Students will apply the principles and processes of inquiry and research to effectively use a range of print, electronic, and mass media resources; to analyze historical innovations and exemplary research; and to investigate real-life situations and career opportunities in interdisciplinary endeavors. They will also assess their own cognitive and affective strategies, apply general skills in both familiar and new contexts, create innovative products, and communicate new knowledge.

COURSE NOTE: Prerequisite: Any U or M preparation course. This course may be offered through e-learning.

CREDIT: 1

TYPE: University

GRADE: 12

Mathematics

Math (Skills for Success)

MAT1L4

This course emphasizes further development of mathematical knowledge and skills to prepare students for success in their everyday lives, in the workplace, in the Grade 10 LDCC course, and in the Grade 11 and Grade 12 Mathematics Workplace Preparation courses. Three strands related to money sense, measurement, and proportional reasoning organizes the course. In all strands, the focus is on developing and consolidating key foundational mathematical concepts and skills by solving authentic, everyday problems. Students have opportunities to further develop their mathematical literacy and problem-solving skills and to continue developing their skills in reading, writing, and oral language through relevant and practical math activities.

COURSE NOTE: This course is reserved for students in the Skills for Success program.

CREDIT: 1

TYPE: Workplace

GRADE: 9

Foundations of Mathematics (Applied)

MFM1P0

This course enables students to develop an understanding of mathematical concepts related to introductory algebra, proportional reasoning, and measurement and geometry through investigation, the effective use of technology, and hands-on activities. Students will investigate real-life examples to develop various representations of linear relations, and will determine the connections between the representations. They will also explore certain relationships that emerge from the measurement of three-dimensional figures and two-dimensional shapes. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.

CREDIT: 1

TYPE: Applied

GRADE: 9

Principles of Mathematics (Academic)

MPM1D0

This course enables students to develop an understanding of mathematical concepts related to algebra, analytic geometry, and measurement and geometry through investigation, the effective use of technology, and

abstract reasoning. Students will investigate relationships, which they will then generalize as equations of lines, and will determine the connections between different representations of a linear relation. They will also explore relationships that emerge from the measurement of three-dimensional figures and two-dimensional shapes. Students will reason mathematically and communicate their thinking as they solve multi-step problems.

CREDIT: 1

TYPE: Academic

GRADE: 9

Math (Skills for Success)

MAT2L4

This course emphasizes the extension of mathematical knowledge and skills to prepare students for success in their everyday lives, in the workplace, and in the Grade 11 and Grade 12 Mathematics Workplace Preparation courses. Three major strands related to money sense, measurement, and proportional reasoning organizes the course. In all strands, the focus is on strengthening and extending key foundational mathematical concepts and skills by solving authentic, everyday problems. Students have opportunities to extend their mathematical literacy and problem-solving skills and to continue developing their skills in reading, writing, and oral language through relevant and practical math activities.

CREDIT: 1

TYPE: Workplace

GRADE: 10

Foundations of Mathematics (Applied)

MFM2P0

This course enables students to consolidate their understanding of linear relations and extend their problem-solving and algebraic skills through investigation, the effective use of technology, and hands-on activities. Students will develop and graph equations in analytic geometry; solve and apply linear systems, using real-life examples; and explore and interpret graphs of quadratic relations. Students will investigate similar triangles, the trigonometry of right triangles, and the measurement of three-dimensional figures. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.

CREDIT: 1

TYPE: Applied

GRADE: 10

PRE-REQUISITE: MFM1P0 - Foundations of Mathematics (Applied); MPM1D0 - Principles of Mathematics (Academic)

Principles of Mathematics (Academic)

MPM2D0

This course enables students to broaden their understanding of relationships and extend their problem-solving and algebraic skills through investigation, the effective use of technology, and abstract reasoning. Students will explore quadratic relations and their applications; solve and apply linear systems; verify properties of geometric figures using analytic geometry; and investigate the trigonometry of right and acute triangles. Students will reason mathematically and communicate their thinking as they solve multi-step problems.

CREDIT: 1

TYPE: Academic

GRADE: 10

PRE-REQUISITE: MPM1D0 - Principles of Mathematics (Academic)

Mathematics for Everyday Life, Workplace Prep.

MEL3E0

This course enables students to broaden their understanding of mathematics as it is applied in the workplace and daily life. Students will solve problems associated with earning money, paying taxes, and making purchases; apply calculations of simple and compound interest in saving, investing, and borrowing; and calculate the costs of transportation and travel in a variety of situations. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.

CREDIT: 1

TYPE: Workplace

GRADE: 11

PRE-REQUISITE: MFM1P0 - Foundations of Mathematics (Applied); MPM1D0 - Principles of Mathematics (Academic)

Mathematics for Everyday Life - Workplace (Skills for Success)**MEL3E4**

This course enables students to broaden their understanding of mathematics as it is applied in the workplace and daily life. Students will solve problems associated with earning money, paying taxes, and making purchases; apply calculations of simple and compound interest in saving, investing, and borrowing; and calculate the costs of transportation and travel in a variety of situations. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.

CREDIT: 1**TYPE:** Workplace**GRADE:** 11**PRE-REQUISITE:** MFM1P0 - Foundations of Mathematics (Applied); MPM1D0 - Principles of Mathematics (Academic); MAT2L4 - Math (Skills for Success)

Functions, Grade 11, University Preparation**MCR3U0**

This course introduces the mathematical concept of the function by extending students' experiences with linear and quadratic relations. Students will investigate properties of discrete and continuous functions, including trigonometric and exponential functions; represent functions numerically, algebraically, and graphically; solve problems involving applications of functions; investigate inverse functions; and develop facility in determining equivalent algebraic expressions. Students will reason mathematically and communicate their thinking as they solve multi-step problems.

CREDIT: 1**TYPE:** University**GRADE:** 11**PRE-REQUISITE:** MPM2D0 - Principles of Mathematics (Academic)

Foundation for College Mathematic, Grade 11, College Preparation**MBF3C0**

This course enables students to broaden their understanding of mathematics as a problem-solving tool in the real world. Students will extend their understanding of quadratic relations; investigate situations involving exponential growth; solve problems involving compound interest; solve financial problems connected with vehicle ownership; develop their ability to reason by collecting, analyzing, and evaluating data involving one variable; connect probability and statistics; and solve problems in geometry and trigonometry. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.

CREDIT: 1**TYPE:** College**GRADE:** 11**PRE-REQUISITE:** MFM2P0 - Foundations of Mathematics (Applied); MPM2D0 - Principles of Mathematics (Academic)

Functions and Applications, University/College Preparation**MCF3M0**

This course introduces basic features of the function by extending students' experiences with quadratic relations. It focuses on quadratic, trigonometric, and exponential functions and their use in modeling real-world situations. Students will represent functions numerically, graphically, and algebraically; simplify expressions; solve equations; and solve problems relating to applications. Students will reason mathematically and communicate their thinking as they solve multi-step problems.

CREDIT: 1**TYPE:** College/University**GRADE:** 11**PRE-REQUISITE:** MFM2P0 - Foundations of Mathematics (Applied); MPM2D0 - Principles of Mathematics (Academic)

Mathematics for Everyday Life

MEL4E0

This course enables students to broaden their understanding of mathematics as it is applied in the workplace and daily life. Students will investigate questions involving the use of statistics; apply the concept of probability to solve problems involving familiar situations; investigate accommodation costs, create household budgets, and prepare a personal income tax return; use proportional reasoning; estimate and measure; and apply geometric concepts to create designs. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.

CREDIT: 1

TYPE: Workplace

GRADE: 12

PRE-REQUISITE: MEL3E0 - Mathematics for Everyday Life, Workplace Prep; MEL3E4 - Mathematics for Everyday Life - Workplace (Skills for Success)

Mathematics for Work and Everyday Life (Skills for Success)

MEL4E4

This course enables students to broaden their understanding of mathematics as it is applied in the workplace and daily life. Students will investigate questions involving the use of statistics; apply the concept of probability to solve problems involving familiar situations; investigate accommodation costs, create household budgets, and prepare a personal income tax return; use proportional reasoning; estimate and measure; and apply geometric concepts to create designs. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.

COURSE NOTE: This course is intended for Skills for Success Students.

CREDIT: 1

TYPE: Workplace

GRADE: 12

PRE-REQUISITE: MEL3E0 - Mathematics for Everyday Life, Workplace Prep.; MEL3E4 - Mathematics for Everyday Life - Workplace (Skills for Success)

Calculus and Vectors, Grade 12, University Preparation

MCV4U0

This course builds on students' previous experience with functions and their developing understanding of rates of change. Students will solve problems involving geometric and algebraic representations of vectors and representations of lines and planes in three-dimensional space; broaden their understanding of rates of change to include the derivatives of polynomial, sinusoidal, exponential, rational, and radical functions; and apply these concepts and skills to the modeling of real-world relationships. Students will also refine their use of the mathematical processes necessary for success in senior mathematics. This course is intended for students who choose to pursue careers in fields such as science, engineering, economics, and some areas of business, including those students who will be required to take a university-level calculus, linear algebra, or physics course.

COURSE NOTE: This course is intended for students who plan to study mathematics in university and who may choose to pursue careers in fields such as physics and engineering.

CREDIT: 1

TYPE: University

GRADE: 12

PRE-REQUISITE: MHF4U0 - Advanced Functions, Grade 12, University Preparation

**Mathematics of Data Management, Grade 12,
University Preparation****MDM4U0**

This course broadens students' understanding of mathematics as it relates to managing data. Students will apply methods for organizing and analyzing large amounts of information; solve problems involving probability and statistics; and carry out a culminating investigation that integrates statistical concepts and skills. Students will also refine their use of the mathematical processes necessary for success in senior mathematics. Students planning to enter university programs in business, the social sciences, and the humanities will find this course of particular interest.

CREDIT: 1**TYPE:** University**GRADE:** 12**PRE-REQUISITE:** MCF3M0 - Functions and Applications, University/College Preparation; MCR3U0 - Functions, Grade 11, University Preparation

Advanced Functions, Grade 12, University Preparation**MHF4U0**

This course extends students' experience with functions. Students will investigate the properties of polynomial, rational, logarithmic, and trigonometric functions; develop techniques for combining functions; broaden their understanding of rates of change; and develop facility in applying these concepts and skills. Students will also refine their use of the mathematical processes necessary for success in senior mathematics. This course is intended both for students taking the Calculus and Vectors course as a prerequisite for a university program and for those wishing to consolidate their understanding of mathematics before proceeding to any one of a variety of university programs.

CREDIT: 1**TYPE:** University**GRADE:** 12**PRE-REQUISITE:** MCR3U0 - Functions, Grade 11, University Preparation; MCT4C0 - Mathematics for College Technology, Grade 12, College Preparation

**Foundations for College Mathematics, Grade 12,
College Preparation****MAP4C0**

This course enables students to broaden their understanding of real-world applications of mathematics. Students will analyze data using statistical methods; solve problems involving applications of geometry and trigonometry; solve financial problems connected with annuities, budgets, and renting or owning accommodation; simplify expressions; and solve equations. Students will reason mathematically and communicate their thinking as they solve multi-step problems. This course prepares students for college programs in areas such as business, health sciences, and human services, and for certain skilled trades.

CREDIT: 1**TYPE:** College**GRADE:** 12**PRE-REQUISITE:** MBF3C0 - Foundation for College Mathematic, Grade 11, College Preparation; MCF3M0 - Functions and Applications, University/College Preparation

Mathematics for College Technology, Grade 12, College**MCT4C0**

Preparation

This course enables students to extend their knowledge of functions. Students will investigate and apply properties of polynomial, exponential, and trigonometric functions; continue to represent functions numerically, graphically, and algebraically; develop facility in simplifying expressions and solving equations; and solve problems that address applications of algebra, trigonometry, vectors, and geometry. Students will reason mathematically and communicate their thinking as they solve multi-step problems. This course prepares students for a variety of college technology programs. This course is highly recommended for many post-secondary skilled-trade college programs.

CREDIT: 1

TYPE: College

GRADE: 12

PRE-REQUISITE: MCF3M0 - Functions and Applications, University/College Preparation

Native Studies

Expressing Aboriginal Cultures

NAC100

This course examines Aboriginal cultures in Canada through an exploration of art forms – painting, sculpture, storytelling, dance, and music – created by Aboriginal artists. Students will learn to identify Aboriginal art forms and describe relationships between the art forms and Aboriginal traditions, philosophy, and culture. Students will also create their own art forms to express their understanding of Aboriginal identity, relationships, and sovereignty.

CREDIT: 1

TYPE: Open

GRADE: 9

Religious Education

Religious Education**HRE100**

This course uses the Beatitudes as a framework to examine the attitudes and actions that characterize the Christian Life. Students will derive knowledge and skills from a study of Scripture, Profession of Faith, Christian Moral Development, Prayer, Sacramental Life, and Family Life. Students are encouraged to grow in Gospel values.

CREDIT: 1**TYPE: Open****GRADE: 9**

Religious Education (Skills for Success)**HRE104**

This course uses the Beatitudes as a framework to examine the attitudes and actions that characterize the Christian Life. Students will derive knowledge and skills from a study of Scripture, Profession of Faith, Christian Moral Development, Prayer, Sacramental Life, and Family Life. Students are encouraged to grow in Gospel values.

COURSE NOTE: The HRE104 course is selected by students registered in the Skills for Success program

CREDIT 1**TYPE: Open****Grade: 9**

Religious Studies**HRE200**

Using the five major Biblical themes of Creation, Covenant, Exodus, Discipleship, and the Paschal Mystery -- this course invites students into a conversation between their own story and the lived story of the Christian community.

CREDIT: 1**TYPE: Open****GRADE: 10**

Religious Education (Skills for Success)**HRE204**

Using the five major Biblical themes of Creation, Covenant, Exodus, Discipleship, and the Paschal Mystery -- this course invites students into a conversation between their own story and the lived story of the Christian community.

COURSE NOTE: students in the Skills select this course for Success Program.

CREDIT: 1**TYPE: Open****GRADE: 10**

World Religions: Beliefs and Daily Life**HRF300**

This course introduces students to the range and diversity of world religions, and examines how systems of belief affect individual lives and social relationships. Students will learn about a variety of religious beliefs, teachings, traditions, and practices. The course also helps students to develop skills used in researching and investigating topics related to world religions.

CREDIT: 1**TYPE: Open****GRADE: 11**

World Religions: Beliefs and Daily Life (Skills for Success)**HRF304**

This course introduces students to the range and diversity of world religions, and examines how systems of belief affect individual lives and social relationships. Students will learn about a variety of religious beliefs, teachings, traditions, and practices. The course also helps students to develop skills used in researching and investigating topics related to world religions.

COURSE NOTE: This course is reserved for Skills for Success Students.

CREDIT: 1**TYPE: Open****GRADE: 11**

World Religions: Beliefs, Issues and Religious Traditions.**HRT3M0**

This course enables students to discover what others believe and how they live, and to appreciate their own

unique heritage. Students will learn about the teachings and traditions of a variety of religions, the connections between religion and the development of civilizations, the place and function of religion in human experience, and the influence of a broad range of religions on contemporary society. This course also introduces students to skills used in researching and investigating world religions.

CREDIT: 1

TYPE: College/University

GRADE: 11

World Religions: Beliefs, Issues and Religious Traditions (Immersion)

HRT3MI

This course enables students to discover what others believe and how they live, and to appreciate their own unique heritage. Students will learn about the teachings and traditions of a variety of religions, the connections between religion and the development of civilizations, the place and function of religion in human experience, and the influence of a broad range of religions on contemporary society. This course also introduces students to skills used in researching and investigating world religions.

COURSE NOTE: The HRT 3MI course is to be selected by students in the French Immersion or Extended French Immersion programs.

CREDIT: 1

TYPE: College/University

GRADE: 11

Church and Culture, Grade 12, Open

HRE400

This course assists students in their development of the skills and knowledge necessary to live lives of full maturity. Within the Catholic faith tradition it is believed that this growth towards human maturity is best served when students are able to define themselves authentically in relation to their God, to other people and to their world. In the Family Life Education strand, students explore a variety of topics related to the themes of personhood, interpersonal relationships, and sexuality. Students will demonstrate a knowledge of the prophetic tradition in Scripture, become familiar with the social teachings of the Catholic Church, explore contemporary notions of spirituality and prayer, and recognize the importance, power and potential of the human person in relation to morality and personal choices concerning future life paths. This course enables students to explore the moral principles of the Church and how these principles relate to them as individuals, and to contemporary culture as a whole. Students explore the role played by the Christian Scriptures, prayer, ritual, and the sacraments as they discern and live out their Christian vocation in their lives. This course also introduces students to skills used in researching and investigating contemporary moral issues and the guiding principles and teachings of the Roman Catholic Church.

CREDIT: 1

TYPE: Open

GRADE: 12

Church and Culture (Skills for Success)

HRE404

This course assists students in their development of the skills and knowledge necessary to live lives of full maturity. Within the Catholic faith tradition it is believed that this growth towards human maturity is best served when students are able to define themselves authentically in relation to their God, to other people and to their world. In the Family Life Education strand, students explore a variety of topics related to the themes of personhood, interpersonal relationships, and sexuality. Students will demonstrate a knowledge of the prophetic tradition in Scripture, become familiar with the social teachings of the Catholic Church, explore contemporary notions of spirituality and prayer, and recognize the importance, power and potential of the human person in relation to morality and personal choices concerning future life paths. This course enables students to explore the moral principles of the Church and how these principles relate to them as individuals, and to contemporary culture as a whole. Students explore the role played by the Christian Scriptures, prayer, ritual, and the sacraments as they discern and live out their Christian vocation in their lives. This course also introduces students to skills used in researching and investigating contemporary moral issues and the guiding principles and teachings of the Roman Catholic Church.

COURSE NOTE: This course is reserved for students in the Skills for Success program.

CREDIT: 1

TYPE: Open

GRADE: 12

Church and Culture

HRE4M0

This course is directed toward the clear identification of Catholic moral principles and the concrete application of these principles in the lives of students. The course proceeds from foundational beliefs rooted in Sacred Scripture concerning justice and peace to an exploration of the principles that shape Christian life. In the

family Life Education strand, students explore a variety of topics related to the themes of personhood, interpersonal relationships, and sexuality. Special attention is given to interaction between the Church and culture. The modern world is characterized by a multiplicity of values, philosophies, and ideologies. In a democratic, pluralistic society, these concepts may creatively reinforce one another or they may compete with and contradict one another.

CREDIT: 1

TYPE: College/University

GRADE: 12

Science

Science (Skills for Success)

SNC1L4

This course emphasizes reinforcing and strengthening science-related knowledge and skills, including scientific inquiry, critical thinking, and the relationship between science, society, and the environment, to prepare students for success in everyday life, in the workplace, and in the Grade 11 Science Workplace Preparation course. Students explore a range of topics, including science in daily life, properties of common materials, life sustaining processes in simple and complex organisms, and electrical circuits. Students have the opportunity to extend mathematical and scientific process skills and to continue developing their skills in reading, writing, and oral language through relevant and practical science activities.

COURSE NOTE: students in the Skills for Success program should select The SNC1L4 course.

CREDIT: 1

TYPE: Workplace

GRADE: 9

Science (Applied)

SNC1P0

This course enables students to develop their understanding of basic concepts in biology, chemistry, earth and space science, and physics, and to apply their knowledge of science to everyday situations. They are also given opportunities to develop practical skills related to scientific investigation. Students will plan and conduct investigations into practical problems and issues related to the impact of human activity on ecosystems; the structure and properties of elements and compounds; space exploration and the components of the universe; and static and current electricity.

CREDIT: 1

TYPE: Applied

GRADE: 9

Science (Academic)

SNC1D0

This course enables students to develop their understanding of basic concepts in biology, chemistry, earth and space science, and physics, and to relate science to technology, society, and the environment. Throughout the course, students will develop their skills in the processes of scientific investigation. Students will acquire an understanding of scientific theories and conduct investigations related to sustainable ecosystems; atomic and molecular structures and the properties of elements and compounds; the study of the universe and its properties and components; and the principles of electricity.

CREDIT: 1

TYPE: Academic

GRADE: 9

Science (Applied)

SNC2P0

This course enables students to develop a deeper understanding of concepts in biology, chemistry, earth and space science, and physics, and to apply their knowledge of science in real-world situations. Students are given opportunities to develop further practical skills in scientific investigation. Students will plan and conduct investigations into everyday problems and issues related to human cells and body systems; chemical

reactions; factors affecting climate change; and the interaction of light and matter.

CREDIT: 1

TYPE: Applied

GRADE: 10

PRE-REQUISITE: SNC1D0 - Science (Academic); SNC1P0 - Science (Applied)

Science (Academic)

SNC2D0

This course enables students to enhance their understanding of concepts in biology, chemistry, earth and space science, and physics, and of the interrelationships between science, technology, society, and the environment. Students are also given opportunities to further develop their scientific investigation skills. Students will plan and conduct investigations and develop their understanding of scientific theories related to the connections between cells and systems in animals and plants; chemical reactions, with a particular focus on acid–base reactions; forces that affect climate and climate change; and the interaction of light and matter.

CREDIT: 1

TYPE: Academic

GRADE: 10

PRE-REQUISITE: SNC1D0 - Science (Academic); SNC1P0 - Science (Applied)

Science (Skills for Success)

SNC3E4

This course provides students with fundamental science knowledge and workplace skills needed to prepare them for success beyond secondary school. Students will explore hazards in the workplace, chemicals in consumer products, disease and its prevention, electricity at home and at work, and nutritional science. Emphasis is placed on current topics in science and relevant, practical activities that develop students' literacy and mathematical literacy skills and enhance their scientific literacy.

COURSE NOTE: This course is reserved for the Skills for Success Students.

CREDIT: 1

TYPE: Workplace

GRADE: 12

PRE-REQUISITE: SNC2P0 - Science (Applied); SNC1L4 - Science (Skills for Success)

Science - Biology

Biology, University Preparation

SBI3U0

This course furthers students' understanding of the processes that occur in biological systems. Students will study theory and conduct investigations in the areas of biodiversity; evolution; genetic processes; the structure and function of animals; and the anatomy, growth, and function of plants. The course focuses on the theoretical aspects of the topics under study, and helps students refine skills related to scientific investigation.

CREDIT: 1

TYPE: University

GRADE: 11

PRE-REQUISITE: SNC2D0 - Science (Academic)

Biology, College Preparation

SBI3C0

This course focuses on the processes that occur in biological systems. Students will learn concepts and theories as they conduct investigations in the areas of cellular biology, microbiology, genetics, the anatomy of mammals, and the structure of plants and their role in the natural environment. Emphasis will be placed on the practical application of concepts, and on the skills needed for further study in various branches of the life sciences and related fields.

CREDIT: 1

TYPE: College

GRADE: 11

PRE-REQUISITE: SNC2D0 - Science (Academic); SNC2P0 - Science (Applied)

Biology, University Preparation

SBI4U0

This course provides students with the opportunity for in-depth study of the concepts and processes that occur in biological systems. Students will study theory and conduct investigations in the areas of biochemistry, metabolic processes, molecular genetics, homeostasis, and population dynamics. Emphasis will be placed on the achievement of detailed knowledge and the refinement of skills needed for further study in various branches of the life sciences and related fields.

CREDIT: 1

TYPE: University

GRADE: 12

PRE-REQUISITE: SBI3U0 - Biology, University Preparation

Science - Chemistry

Chemistry, University Preparation

SCH3U0

This course enables students to deepen their understanding of chemistry through the study of the properties of chemicals and chemical bonds; chemical reactions and quantitative relationships in those reactions; solutions and solubility; and atmospheric chemistry and the behavior of gases. Students will further develop their analytical skills and investigate the qualitative and quantitative properties of matter, as well as the impact of some common chemical reactions on society and the environment.

CREDIT: 1

TYPE: University

GRADE: 11

PRE-REQUISITE: SNC2D0 - Science (Academic)

Chemistry, University Preparation

SCH4U0

This course enables students to deepen their understanding of chemistry through the study of organic chemistry, the structure and properties of matter, energy changes and rates of reaction, equilibrium in chemical systems, and electrochemistry. Students will further develop their problem-solving and investigation skills as they investigate chemical processes, and will refine their ability to communicate scientific information. Emphasis will be placed on the importance of chemistry in everyday life and on evaluating the impact of chemical technology on the environment.

CREDIT: 1

TYPE: University

GRADE: 12

PRE-REQUISITE: SCH3U0 - Chemistry, University Preparation

Science - Physics

Physics, University Preparation

SPH3U0

This course develops students' understanding of the basic concepts of physics. Students will explore kinematics, with an emphasis on linear motion; different kinds of forces; energy transformations; the properties of mechanical waves and sound; and electricity and magnetism. They will enhance their scientific investigation skills as they test laws of physics. In addition, they will analyze the interrelationships between physics and technology, and consider the impact of technological applications of physics on society and the environment.

CREDIT: 1

TYPE: University

GRADE: 11

PRE-REQUISITE: SNC2D0 - Science (Academic)

Physics, University Preparation

SPH4U0

This course enables students to deepen their understanding of physics concepts and theories. Students will continue their exploration of energy transformations and the forces that affect motion, and will investigate electrical, gravitational, and magnetic fields and electromagnetic radiation. Students will also explore the wave nature of light, quantum mechanics, and special relativity. They will further develop their scientific investigation skills, learning, for example, how to analyze, qualitatively and quantitatively, data relating to a variety of physics concepts and principles. Students will also consider the impact of technological applications of physics on society and the environment.

CREDIT: 1

TYPE: University

GRADE: 12

PRE-REQUISITE: SPH3U0 - Physics, University Preparation

Physics

SPH4C0

This course develops students' understanding of the basic concepts of physics. Students will explore these concepts with respect to motion; mechanical, electrical, electromagnetic, energy transformation, hydraulic, and pneumatic systems; and the operation of commonly used tools and machines. They will develop their scientific investigation skills as they test laws of physics and solve both assigned problems and those emerging from their investigations. Students will also consider the impact of technological applications of physics on society and the environment.

CREDIT: 1

TYPE: College

GRADE: 12

PRE-REQUISITE: SNC2D0 - Science (Academic); SNC2P0 - Science (Applied)

Social Sciences

Food and Nutrition

HFN200

This course explores the factors that affect attitudes and decisions about food, examines current issues of body image and food marketing, and is grounded in the scientific study of nutrition. Students will learn how to make informed food choices and how to prepare foods, and will investigate our Canadian food heritage and food industries, as well as global food issues. The course also introduces students to research skills related to food and nutrition.

COURSE NOTE: There is a \$20.00 cost for this course.

CREDIT: 1

TYPE: Open

GRADE: 10

Parenting

HPC300

This course focuses on the skills and knowledge needed to promote the positive and healthy nurturing of children, with particular emphasis on the critical importance of the early years to human development. Students will learn how to meet the developmental needs of young children, communicate and discipline effectively, and guide early behavior. They will have practical experiences with infants, toddlers, and preschoolers, and will learn skills in researching and investigating questions relating to parenting.

CREDIT: 1

TYPE: Open

GRADE: 11

Parenting - Workplace (Skills for Success)

HPC304

This course focuses on the skills and knowledge needed to promote the positive and healthy nurturing of

children, with particular emphasis on the critical importance of the early years to human development. Students will learn how to meet the developmental needs of young children, communicate and discipline effectively, and guide early behavior. They will have practical experiences with infants, toddlers, and preschoolers, and will learn skills in researching and investigating questions relating to parenting.

COURSE NOTE: students registered in the Skills for Success program should select The HPC 304 course.

CREDIT: 1

TYPE: Open

GRADE: 11

Individuals and Families in a Diverse Society

HHS4M0

This course applies current theories and research from the disciplines of anthropology, psychology, and sociology to the study of individual development, family behavior, intimate and parent–child relationships, and the ways in which families interact within the diverse Canadian society. Students will learn the interpersonal skills required contributing to the well being of families, and the investigative skills required to conduct and evaluate research about individuals and families.

CREDIT: 1

TYPE: College/University

GRADE: 12

PRE-REQUISITE: Any grade 11 or 12 university, university/college or college preparation course in the social sciences and humanities, English or Canadian and World Studies.

Technological Education

Exploring Technologies

TIJ100

This course enables students to further explore and develop technological knowledge and skills introduced in the elementary science and technology program. Students will be given the opportunity to design and create products and/or provide services related to the various technological areas or industries, working with a variety of tools, equipment, and software commonly used in industry. Students will develop an awareness of environmental and societal issues, and will begin to explore secondary and postsecondary education and training pathways leading to careers in technology-related fields. Students will explore the fields of construction, manufacturing, communications technology, and transportation.

CREDIT: 1

TYPE: Open

GRADE: 9

Exploring Technologies (Skills for Success)**TIJ104**

This course enables students to further explore and develop technological knowledge and skills introduced in the elementary science and technology program. Students will be given the opportunity to design and create products and/or provide services related to the various technological areas or industries, working with a variety of tools, equipment, and software commonly used in industry. Students will develop an awareness of environmental and societal issues, and will begin to explore secondary and postsecondary education and training pathways leading to careers in technology-related fields.

COURSE NOTE: This course is reserved for students in the Skills for Success Program.

CREDIT: 1**TYPE:** Open**GRADE:** 9

Construction Technology**TCJ200**

This course introduces students to building materials and processes through opportunities to design and build various construction projects. Students will learn to create and read working drawings; become familiar with common construction materials, components, and processes; and perform a variety of fabrication, assembly, and finishing operations. They will use a variety of hand and power tools and apply knowledge of imperial and metric systems of measurement, as appropriate. Students will develop an awareness of environmental and societal issues related to construction technology, and will explore secondary and postsecondary pathways leading to careers in the industry.

CREDIT: 1**TYPE:** Open**GRADE:** 10

Construction Technology (Skills for Success)**TCJ204**

This course introduces students to building materials and processes through opportunities to design and build various construction projects. Students will learn to create and read working drawings; become familiar with common construction materials, components, and processes; and perform a variety of fabrication, assembly, and finishing operations. They will use a variety of hand and power tools and apply knowledge of imperial and metric systems of measurement, as appropriate. Students will develop an awareness of environmental and societal issues related to construction technology, and will explore secondary and postsecondary pathways leading to careers in the industry.

COURSE NOTE: This course is for students registered in the Skills for Success program.

CREDIT: 1**TYPE:** Open**GRADE:** 10

Technological Design**TDJ200**

This course provides students with opportunities to apply a design process to meet a variety of technological challenges. Students will research projects, create designs, build models and/or prototypes, and assess products and/or processes using appropriate tools, techniques, and strategies. Student projects may include designs for homes, vehicles, bridges, robotic arms, clothing, or other products. Students will develop an awareness of environmental and societal issues related to technological design, and learn about secondary and postsecondary education and training leading to careers in the field.

CREDIT: 1**TYPE:** Open**GRADE:** 10

Communications Technology & Computer Studies**TGJ200**

This course introduces students to communications technology from a media perspective. Students will work in the areas of TV/video and movie production, radio and audio production, print and graphic communications,

photography, and animation. Student projects may include computer-based activities such as creating videos, editing photos, working with audio, cartooning, developing animations, and designing web pages. Students will also develop an awareness of environmental and societal issues related to communications technology and explore secondary and postsecondary education and training pathways and career opportunities in the various communications technology fields.

COURSE NOTE: This course is taken in conjunction with ICS 200. Please select ICS 200.

CREDIT: 0.5

TYPE: Open

GRADE: 10

Transportation Technology

TTJ200

This course introduces students to the service and maintenance of vehicles, aircraft, and/or watercraft. Students will develop knowledge and skills related to the construction and operation of vehicle/craft systems and learn maintenance and repair techniques. Student projects may include the construction of a self-propelled vehicle or craft, engine service, tire/wheel service, electrical/battery service, and proper body care. Students will develop an awareness of related environmental and societal issues and will explore secondary and postsecondary pathways leading to careers in the transportation industry.

CREDIT: 1

TYPE: Open

GRADE: 10

Construction Technology (Workplace)

TCJ3E0

This course enables students to develop technical knowledge and skills related to carpentry, masonry, electrical systems, heating and cooling, and plumbing for residential construction. Students will gain hands on experience using a variety of materials, processes, tools, and equipment to design, lay out, and build projects. They will create and read technical drawings, learn construction terminology, interpret building codes and regulations, and apply mathematical skills as they develop construction projects. Students will also develop an awareness of environmental and societal issues related to construction technology, and explore postsecondary and career opportunities in the field.

CREDIT: 1

TYPE: Workplace

GRADE: 11

Construction Technology (Skills for Success)

TCJ3E4

This course enables students to develop technical knowledge and skills related to carpentry, masonry, electrical systems, heating and cooling, and plumbing for residential construction. Students will gain hands on experience using a variety of materials, processes, tools, and equipment to design, lay out, and build projects. They will create and read technical drawings, learn construction terminology, interpret building codes and regulations, and apply mathematical skills as they develop construction projects. Students will also develop an awareness of environmental and societal issues related to construction technology, and explore postsecondary and career opportunities in the field.

CREDIT: 1

TYPE: Workplace

GRADE: 11

Manufacturing Technology

TMJ3E4

This hands-on, project-based course is designed for students planning to enter an occupation or

apprenticeship in manufacturing directly after graduation. Students will work on a variety of manufacturing projects, developing knowledge and skills in design, fabrication, and problem solving and using tools and equipment such as engine lathes, milling machines, and welding machines. In addition, students may have the opportunity to acquire industry-standard certification and training. Students will develop an awareness of environmental and societal issues related to manufacturing and will learn about secondary school pathways that lead to careers in the industry.

CREDIT: 1 **TYPE:** Workplace **GRADE:** 11

Transportation Technology (Workplace) TTJ3E0

This course examines the various types of land, air, and/or marine vehicles and vehicle systems found within the transportation sector. Students will acquire identification, troubleshooting, repairing, and testing skills that meet industry standards and government regulations. In addition to developing employability and technical skills, they will explore the broad range of career opportunities within this sector, and will examine the impact of the transportation sector on people, society, and the environment.

CREDIT: 1 **TYPE:** Workplace **GRADE:** 11

Construction Technology TCJ3C0

This course focuses on the development of knowledge and skills related to residential construction. Students will gain hands on experience using a variety of construction materials, processes, tools, and equipment; learn about building design and planning construction projects; create and interpret working drawings and sections; and learn how the Ontario Building Code and other regulations and standards apply to construction projects. Students will also develop an awareness of environmental and societal issues related to construction technology, and explore career opportunities in the field.

CREDIT: 1 **TYPE:** Open **GRADE:** 11

Transportation Technology: Vehicle Ownership TTJ300

This general interest course enables students to become familiar with the options and features of various vehicles, issues of registration, and the legal requirements affecting vehicle owners. Students will also learn about vehicle financing and insurance, vehicle maintenance, emergency procedures, and the responsibilities of being a vehicle owner. Students will develop an awareness of environmental and societal issues related to vehicle ownership and use, and will explore career opportunities in the transportation industry.

CREDIT: 1 **TYPE:** Open **GRADE:** 11

Manufacturing Engineering Technology TMJ3C0

This course enables students to develop knowledge and skills through hands-on, project-based learning. Students will acquire design, fabrication, and problem-solving skills while using tools and equipment such as lathes, mills, welders, computer-aided machines, robots, and control systems. Students may have opportunities to obtain industry-standard certification and training. Students will develop an awareness of environmental and societal issues related to manufacturing and will learn about pathways leading to careers in the industry.

CREDIT: 1 **TYPE:** College **GRADE:** 11

Transportation Technology TTJ3C0

This course enables students to develop technical knowledge and skills as they study, test, service, and repair engine, electrical, suspension, brake, and steering systems on vehicles, aircraft, and/or watercraft. Students will develop communication and teamwork skills through practical tasks, using a variety of tools and equipment. Students will develop an awareness of environmental and societal issues related to transportation and will learn about apprenticeship and college programs leading to careers in the transportation industry.

CREDIT: 1

TYPE: College

GRADE: 11

Transportation Technology: Small Engine and Recreational Equipment

TTS3C0

This course enables students to develop technical knowledge and skills as they study, test, service, and repair engine, electrical, suspension, brake, and steering systems on vehicles, aircraft, and/or watercraft. Students will develop communication and teamwork skills through practical tasks, using a variety of tools and equipment. Students will develop an awareness of environmental and societal issues related to transportation and will learn about apprenticeship and college programs leading to careers in the transportation industry.

CREDIT: 1

TYPE: College

GRADE: 11

Communications Technology (SHSM) Part 1 & 2

TGJ3MH

This course examines communications technology from a media perspective. Students will develop knowledge and skills as they design and produce media projects in the areas of live, recorded, and graphic communications. These areas may include TV, video, and movie production; radio and audio production; print and graphic communications; photography; digital imaging; broadcast journalism; and interactive new media. Students will also develop an awareness of related environmental and societal issues and explore college and university programs and career opportunities in the various communications technology fields.

CREDIT: 2

TYPE: College/University

GRADE: 11

Construction Technology (Skills for Success)

TCJ4E4

This course enables students to further develop technical knowledge and skills related to residential construction and to explore light commercial construction. Students will continue to gain hands on experience using a variety of materials, processes, tools, and equipment; create and interpret construction drawings; and learn more about building design and project planning. They will expand their knowledge of terminology, codes and regulations, and health and safety standards related to residential and light commercial construction. Students will also expand their awareness of environmental and societal issues related to construction technology and explore entrepreneurship and career opportunities in the industry that may be pursued directly after graduation.

COURSE NOTE: This course is reserved for Skills for Success students.

CREDIT: 1

TYPE: Workplace

GRADE: 12

PRE-REQUISITE: TCJ3E0 - Construction Technology (Workplace); TCJ3E4 - Construction Technology (Skills for Success)

Transportation Technology

TTJ4E0

This course introduces students to the servicing, repair, and maintenance of vehicles through practical applications. The course is appropriate for all students as a general interest course to prepare them for future vehicle operation, care, and maintenance or for entry into an apprenticeship in the motive power trades. Students will develop an awareness of environmental and societal issues related to transportation and will learn about careers in the transportation industry and the skills and training required for them.

CREDIT: 1

TYPE: Workplace

GRADE: 12

PRE-REQUISITE: TTJ3E0 - Transportation Technology (Workplace)

Construction Engineering Technology

TCJ4C0

This course enables students to further develop knowledge and skills related to residential construction and to explore light commercial construction. Students will gain hands on experience using a variety of materials, processes, tools, and equipment and will learn more about building design and project planning. They will continue to create and interpret construction drawings and will extend their knowledge of construction terminology and of relevant building codes and regulations, as well as health and safety standards and practices. Students will also focus on environmental and societal issues related to construction engineering

technology, and explore career opportunities in the field.

CREDIT: 1

TYPE: College

GRADE: 12

PRE-REQUISITE: TCJ3C0 - Construction Technology

Manufacturing Engineering Technology

TMJ4C0

This course enables students to further develop knowledge and skills related to machining, welding, print reading, computer numerical control (CNC), robotics, and design. Students will develop proficiency in using mechanical, pneumatic, electronic, and computer control systems in a project-based learning environment and may have opportunities to obtain industry-standard training and certification. Students will expand their awareness of environmental and societal issues and career opportunities in the manufacturing industry.

CREDIT: 1

TYPE: College

GRADE: 12

PRE-REQUISITE: TMJ3C0 - Manufacturing Engineering Technology

Transportation Technology

TTJ4C0

This course enables students to further develop technical knowledge and skills as they study, test, service, and repair engine management systems; power trains; steering/control, suspension, brake, and body systems on vehicles, aircraft, and/or watercraft; and/or small-engine products. Students will refine communication and teamwork skills through practical tasks, using a variety of tools and equipment. Students will expand their awareness of environmental and societal issues related to transportation and their knowledge of apprenticeship and college programs leading to careers in the transportation industry.

CREDIT: 1

TYPE: College

GRADE: 12

PRE-REQUISITE: TTJ3C0 - Transportation Technology

Communication Technology (SHSM) Part 1 & 2

TGJ4MH

This course enables students to further develop media knowledge and skills while designing and producing projects in the areas of live, recorded, and graphic communications. Students may work in the areas of TV, video, and movie production; radio and audio production; print and graphic communications; photography; digital imaging; broadcast journalism; and interactive new media. Students will also expand their awareness of environmental and societal issues related to communications technology and will investigate career opportunities and challenges in a rapidly changing technological environment.

COURSE NOTE: This course is one of the major credits attached to the High Skills Major.

CREDIT: 2

TYPE: College/University

GRADE: 12

PRE-REQUISITE: TGJ3MH - Communications Technology (SHSM) Part 1 & 2